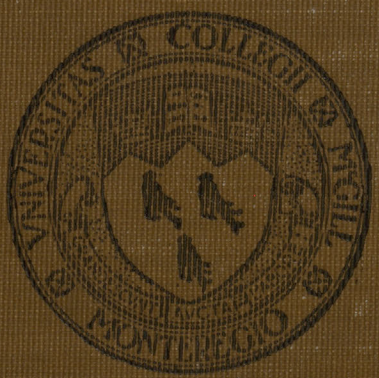
# McGILL UNIVERSITY

## MONTREAL




## CALENDAR 1911-1912

Montreal:
PRINTED FOR THE UNIVERSITY BY THE GAZETTE PRINTING CO., LIMITED
1911

McGill University Libraries
3 100 785 377 6

[redacted] [redacted]

1911-12

No. 136668

Library of McGill University

MONTREAL

Received 1913

# GENERAL INDEX.

THE ROMAN NUMERALS INDICATE THE BULLETIN IN WHICH THE MATTER IS TO BE FOUND, AND THE ARABIC NUMERALS THE PAGE THEREIN.


| | PAGE |
|---|---|
| Academic Board | i, 3 |
| Academic Year | i, 34 |
| Academic Dress | i, 73 |
| Accounting, Course in | iii, 109 |
| Administrative Officers | i, xi |
| Ad Eundem Degrees | i, 11 |
| **Admission** | i, 13 |
| Ad Eundem Gradum | i, 31 |
| Of Partial Students | i, 33 |
| Of Students from other Universities | i, 31 |
| To Practise Dentistry | i, 106 |
| To the Bar | iv, 21 |
| To the Study of Medicine | v, 40, 52 |
| Advanced Courses in Arts | ii, 50 |
| Advanced Courses in Medicine | v, 96 |
| Advanced Exhibitions, Faculty of Arts | ii, 35 |
| Advisory Committee, Faculty of Law | iv. 10 |
| Advisory Committee, Faculty of Arts | ii, 5, 50 |
| Affiliated Colleges | i, 33 |
| Age for Admission | i, 33 |
| Agency and Partnership | iv, 15 |
| Agriculture, Faculty of | i, 8, 128 |
| Algebra for Matriculation | i, 24 |
| Course in (Arts) | ii, 97 |
| (Applied Science) | iii, 86 |
| Analytical Geometry | ii, 97 ; iii, 66, 87 |
| Anatomical Museum | v, 111 |
| Anatomy | v, 72 |
| Anglo-Saxon | ii, 74 |
| Annie McIntosh Prize | i, 51 |
| Applied Mechanics, Courses in | iii, 74 |
| Applied Science, Faculty of | i, 7, 9[illegible] |
| Arabic, Courses in | ii, [illegible] |
| Aramaic, Courses in | ii. |

| | PAGE |
|---|---|
| Architecture :— | |
| Course in | iii, 39 |
| Subject of | iii, 64 |
| Arithmetic for Matriculation | i, 21 |
| Arts, Faculty of | i, 6, 90; ii |
| Course for B. A. | ii, 50, 54 |
| For B. Sc. (in Arts) | ii, 56 |
| Assaying, Courses in | iii, 96 |
| Laboratories | iii, 96, 126 |
| Associations, See Societies. | |
| Astronomical Observatory | iii, 124 |
| Astronomy, Courses in | ii, 98 |
| Athletics | ii, 98 ; iii, 106 |
| Athletics Committee of Corporation | i, 69 |
| Athletic Association, University | i, 71 |
| Attendance, Rules regarding | i, 37 |
| B. A. Degree | ii, 50, 54 |
| Exemptions for Professional Students | ii, 60 |
| Honour Courses for | ii, 53 |
| B. A. and B. C. L. | ii, 62 |
| B. A. and B. Sc. | ii, 60 |
| B. A. and M. D. | ii, 61 |
| Bachelor of Music | i, 109 |
| Bacteriology | v 81 |
| Bar Regulations, Province of Quebec | iv, 21 |
| B. Arch. Degree, Regulations | iii, 34 |
| B.C.L. Degree, Regulations | i, 7 ; iv, 9 |
| B. Sc. and M. D. | ii, 61 |
| B. Sc. Degree, Course for in Faculty of Arts | ii, 56 |
| In Faculty of Applied Science | iii, 36 |
| Bibliography | iv, 14 |
| Biology, Courses in | ii, 107 ; v, 77 |
| Board of Governors | i, ix |
| Their Powers | i, 3 |
| Board and Residence | i, 39 |
| In Macdonald College | i, 130 |
| In Royal Victoria College for Women | i, 125 |
| Botanical Laboratories | i, 80 |
| Botany :— | |
| Courses in (Arts) | ii, 107 |
| For Matriculation | i, 30 |
| Bridge Design | iii, 76 |
| British Association Exhibitions | i, 51 |
| British Columbia, McGill University College of | i, 4 |
| British School of Classical Studies, Athens | ii, 66 |

| | Page |
|---|---|
| British School of Classical Studies, Rome | ii, 69 |
| B. S. A. Degree | i, 8, 132 |
| Building Construction | iii, 76 |
| Buildings | i, 75 |
| Bursaries, James Douglas | i, 53 |
| Calculus | ii, 97; iii, 87 |
| Calendar of Meetings, etc | i, xxxi |
| Canadian Society of Civil Engineers | iii, 113 |
| Canadian Mining Institute | iii. 113 |
| Carpenter Shop Instruction | iii, 88 |
| Caution Money | i, 61-65 |
| Cement Laboratory | iii, 121 |
| Centre Building | i, 75 |
| Certificates Accepted for Matriculation | i, 15 |
| In Applied Science | i, 57 |
| In Arts | i, 56 |
| Of Literate in Arts | i, 6 |
| Chemical Engineering, Outline of Course in | iii, 44 |
| Chemistry Building, The Macdonald | i, 77 |
| Chemistry:— | |
| Course in (Applied Science) | iii, 42 |
| For Matriculation | i, 30 |
| Subject of (Arts) | ii, 101 |
| (Applied Science) | iii, 71 |
| (Medicine) | v, 73 |
| Laboratories | iii, 121 |
| Civil Engineers, Canadian Society of | iii, 113 |
| Civil Engineering:— | |
| Course in | iii, 46 |
| Subject of | iii, 74 |
| Civil Procedure, Courses in | iv, 16 |
| Classics, Courses in | ii, 64 |
| Classification of Students | i, 33 |
| Clinical Instruction in Medicine | v, 100 |
| Clinical Medicine | v, 85 |
| Clinical Microscopy | v, 87 |
| Clinical Surgery | v, 88 |
| Clubs, see Societies. | |
| Colleges, Affiliated | i, 4 |
| College Grounds, Management of | i, 69 |
| Colleges, Incorporated | i, 4 |
| Commerce, Diploma of | ii, 110 |
| Commercial Law | iv, 16 |
| Committees of Governors and Corporation | i, xii |

| | PAGE |
|---|---|
| Committees in Applied Science | iii, 4 |
| In Arts | ii, 5 |
| Comparative Anatomy | v, 78 |
| Comparative Literature | ii, 76 |
| Comparative Philology | ii, 70 |
| Composition, English | ii, 70; iii, 82 |
| For Entrance | i, 21 |
| Conditioned Undergraduates | i, 33 |
| Conduct of Students | i, 68 |
| Congregational College | i, 5 |
| Conics | ii, 97 |
| Conservatorium of Music | i, 9, 75, 108 |
| Constitution of the University | i, 3 |
| Constitutional Law | ii, 96; iv, 13 |
| Contracts | iv, 16 |
| Corporation, The | i, ix, 3 |
| Corporations, Courses in Law of | iv, 15 |
| Coster Memorial Prize | i, 50 |
| Courses for B.A. | ii, 56 |
| For B.Sc. in Arts | ii, 56 |
| For Diploma of Commerce | ii, 110 |
| Courses of Instruction in Applied Science | iii, 36 |
| Courses of Lectures:— | |
| In Applied Science | iii, 64 |
| In Arts | ii, 64 |
| In Law | iv, 13 |
| In Medicine | v, 72 |
| Course of Study for D.D.S. | i, 8, 106 |
| Course of Study in Law | iv, 16 |
| Criminal Law | iv, 16 |
| Crystallography | iii, 85 |
| Dates for Session 1911-1912 | i, 34 |
| D. C. L. Degree, Requirements for | iv, 19 |
| D. D. S. Degree, Requirements for | i, 8, 106 |
| D. Litt. Degree, Requirements for | i, 10 |
| D. Sc. Degree, Requirements for | i, 11 |
| Degrees granted by the University | i, 10 |
| Ad Eundem | i, 11 |
| In Music | i, 109 |
| Requirements for M. D., C. M. | v, 57 |
| For Ph. D | i, 8, 121 |
| Dental Department, Faculty of Medicine | i, 8, 106; v, 122 |
| Dentistry, Course in | i, 106; v, 122 |
| Department of Music | i, 108 |

PAGE

Dermatology ..... v, 94
Descriptive Geometry ..... iii, 79
Designing ..... iii, 64, 93
Diocesan College ..... i, 5
Diploma of Commerce ..... ii, 110
Diploma of Licentiate in Music ..... i, 108
Diploma of Public Health ..... v, 97
Discipline ..... i, 68
Diseases of Infants ..... v, 90, 91
Doctor of Music ..... i, 111
Doctor of Philosophy, course for ..... i, 121
Double Courses :—
  Arts and Applied Science ..... i, 95
  " " Law ..... i, 96
  " " Medicine ..... i, 95
  " " Theology ..... i, 97
Drawing, Courses in ..... iii, 69, 79, 87
Dress, Academic ..... i, 73
Dynamics ..... ii, 98

Early English Text Society's Prize ..... i, 50
Economics ..... ii, 93; iii, 85, 109
Education ..... ii, 95
Electrical Engineering:—
  Course in ..... iii, 48
  Laboratories ..... iii, 81, 122
  Subject of ..... iii, 80
Electricity ..... ii, 100; iii, 104
Electric Lighting ..... iii, 80
Electric Railways ..... iii, 111
Electric Traction ..... iii, 80
Electro-Chemistry ..... iii, 72
Electro-Metallurgy ..... iii, 99
Elocution, Fee for ..... i, 80
Embryology ..... ii, 109
Engineering Building ..... i, 76
Engineering, Courses in ..... iii, 36
Engineering Economics ..... iii, 85
Engineering Law ..... iii, 85
Engineering Societies ..... iii, 113
English:—
  Courses in ..... ii, 70; iii, 82, 108, 110
  For Matriculation ..... i, 21
English Composition ..... ii, 70; iii, 82
  For Entrance ..... i, 21

427447

| | Page |
|---|---|
| English Grammar for Matriculation | i, 21 |
| Entrance Examination | i, 13 |
| Into Second Year | i, 31 |
| Requirements for Macdonald College | i, 20, 129 |
| Entrance Exhibitions in Arts | ii, 34 |
| Equivalent Standing for Students from other Universities | , 32 |
| Ethics | ii, 89 |
| Evidence, Course in | iv, 19 |
| Examinations:— | |
| For Entrance | i, 13 |
| For Exhibitions (in Arts) | ii, 34 |
| For Scholarships (in Arts | ii, 39 |
| In Applied Science | iii, 34 |
| In Arts | ii, 59 |
| In Medicine | v, 60 |
| Time Tables of in Arts | ii, 9 |
| Exemptions from Matriculation Examination | i, 15 |
| Exemptions in Arts for Students in Professional Faculties | i, 95 |
| For Students in Theological Colleges | i, 97 |
| **Exhibitions:—** | |
| First Year Entrance in Arts | ii, 34 |
| For Graduates of School for Teachers | ii, 34 |
| In Law | i, 54 |
| Mackenzie | ii, 41 |
| Ross, P. S. | ii, 35 |
| Second Year in Arts | ii, 37 |
| Winners of (1910-1911) | vi, 9 |
| And see Scholarships. | |
| Expenses of Board and Residence | i, 40, 41 |
| Experimental Engineering | iii, 94 |
| Experimental Physics | ii, 100; iii, 104 |
| **Faculties**, General Statement of | i, 6 |
| Faculty of Applied Science | i, 7, 98; iii |
| Of Arts | i, 6, 90; ii |
| Of Law | i, 7, 101; iv |
| Of Medicine | i, 8, 103; v |
| Of Agriculture | i, 8, 128 |
| **Fees:—** | |
| In Applied Science | i, 61 |
| In Arts | i, 59 |
| In Dentistry | i, 64 |
| In the Graduate School | i, 65 |
| In Law | i, 65 |
| In Macdonald College | i, 130 |

PAGE

In Medicine ..... i, 62
In Music ..... i, 66
For Matriculation ..... i, 16
Miscellaneous ..... i, 67
Fellows of the University ..... i, 3
Fellowships in Applied Science ..... i, 53
Fellowships in Medicine ..... v, 62
First Year Course in Arts ..... ii, 50
In Applied Science ..... iii, 37
First Year Exhibitions in Arts ..... ii, 34
Foundations and Masonry ..... iii, 75
Foundation of the University ..... i, 1
Of the Faculty of Medicine ..... v, 35
Foundry work, Instruction in ..... iii, 92
Fourth Year Course in Arts ..... ii, 52
Freehand Drawing, Courses in ..... iii, 79
Freight Service ..... iii, 108
French :—
Courses in ..... ii, 77; iii, 68
For Matriculation ..... i, 23

Geodesy ..... iii, 105
Geodetic Laboratory ..... iii, 107, 124
Geography for Matriculation ..... i, 21
Geology ..... ii, 103; iii, 83
Geometry :—
Courses in ..... ii, 97; iii, 66, 86
Descriptive ..... iii, 79
For Matriculation ..... , 24, 27
German:—
Courses in ..... ii, 80
For Matriculation ..... i, 23
Government of the University ..... i, 3
Governors, Board of ..... i, ix
Their Powers ..... i, 3
Gowns ..... i, 73
Graduates (1911) ..... vi, i
Graduate Courses in Medicine ..... v, 96
Graduate School ..... i, 8, 118
Graduates' Societies, see Societies.
Graduate Students ..... i, 33
Graphical Statics ..... iii, 68, 74
Greek:—
Courses in ..... ii, 64
For Matriculation ..... i, 22

| | Page |
|---|---|
| Grounds, Management of | i, 69 |
| Gymnasia | i, 71 |
| Gymnastics, Classes for Men in | i, 72 |
| Classes for Women in | i, 125 |
| Gynæcology | v, 91 |
| Heating and Ventilation | iii, 94 |
| Hebrew | ii, 84 |
| Higher Degrees | i, 10 |
| Histology | v, 78 |
| History | ii, 91 |
| For Matriculation | i, 21 |
| Of the Faculty of Medicine | v, 35 |
| Of the University | i, 1 |
| History of Medicine, subject of | v, 87 |
| Holidays in Law | iv, 10 |
| Hoods | i, 73 |
| Honours in Applied Science | iii, 31 |
| In Medicine | v, 61 |
| Honour Courses for B.A. | ii, 53 |
| For B. Sc. in Arts | ii, 56 |
| Hospitals | v, 101 |
| Household Science | i, 8, 130 |
| Hydraulics | iii, 77 |
| Laboratory | iii, 78, 124 |
| Hydrostatics | ii, 98 |
| Hygiene, Museum of | v, 112 |
| " Subject of | iii, 67; v, 83 |
| Incorporated Colleges | i, 4 |
| Instruction, Officers of | i, xv |
| Interlocking | iii, 110 |
| International Law, Courses in | iv, 18 |
| Italian | ii, 82 |
| Joint Stock Companies | iv, 15 |
| Laboratories | i, 80; iii, 121 |
| Latin : – | |
| Courses in | ii, 66 |
| For Matriculation | i, 22 |
| Law, Engineering | iii, 85 |
| Law, Faculty of | i, 7, 101; iv |
| Lease | iv, 16 |
| Lecture Courses in Arts | ii, 64 |
| Lectures, Time Tables of, in Arts | ii, 8 |
| In Law | iv, 4 |

PAGE

Lecturers, List of ..... i, xv
Legal History and Bibliography, Courses in ..... iv, 14
Lettering ..... iii, 79
Library Instruction, Summer School in ..... i, 34
Library, The University ..... i, 78, 115
The Law ..... iv, 9
The Medical ..... v, 114
Licentiate in Music, Diploma of ..... i, 108
Lists of Students ..... vi, 11
Literate in Arts, Certificate of ..... i, 6
LL.D. Degree, Requirements for ..... i, 11
Lodgings ..... i, 39
For Women ..... i, 125
Logic ..... ii, 89
Locomotive Engineering ..... iii, 94

M. A. Degree ..... i, 8, 119
Macdonald Chemistry and Mining Building ..... i, 77
Macdonald College ..... i, 8, 128
Macdonald Engineering Building ..... i, 76
Macdonald Physics Building ..... i, 77
Machine Design ..... iii, 90, 93
Machine Shop, Instruction in ..... iii, 92
Mackenzie Exhibitions ..... ii, 41
Magnetism ..... ii, 100; iii, 104
M.D. Degree, Regulations ..... i, 8, 104; v, 57
Mapping ..... iii, 106, 109
Marine Engineering ..... iii, 94
Marriage Covenants, Courses in Law of ..... iv, 16
Materials of Construction ..... iii, 74
Mathematics, Courses in (Arts) ..... ii, 97
(Applied Science) ..... iii, 86
For Matriculation ..... i, 24
**Matriculation Examination** ..... i, 13
Certificates accepted for ..... i, 15
Details of work in each Subject ..... i, 21
Fees for ..... i, 16
In Dentistry ..... i, 106
Regulations ..... i, 13
Matriculation Exhibitions ..... i, 45
McCarthy, (J. M.) Prize ..... i, 51
McGill College, Founding of ..... i, 1
McGill, Hon. James ..... i, 1
McGill Medical Society ..... v, 117
McGill Union, The ..... i, 39, 78
McGill University Conservatorium of Music ..... i, 9, 75, 108

PAGE

McGill University College of British Columbia ..... i, 4
McGill Y. M. C. A. ..... i, 79
Mechanical Engineering.
Course in ..... iii, 50
Laboratory of ..... iii, 91, 125
Subject of ..... iii, 87
Mechanics ..... iii, 74, 86
Mechanical Drawing ..... iii, 87, 89
Mechanics of Machines ..... iii, 89, 93
Medals awarded in Arts ..... i, 56
For Physical Education ..... i, 72
In Applied Science ..... i, 57
In Law ..... i, 57
In Medicine ..... i, 58
Medical Building ..... v, 36
**Medicine**, Faculty of ..... i, 8, 103; v
Medical Building ..... i, 75
Medical Council Registrars ..... i, 103
Medical Jurisprudence ..... v, 83
Medical Library ..... v, 114
Medical Society ..... v, 117
Medicine, Subject of ..... v, 85
Mental and Moral Philosophy ..... ii, 88
Mental Diseases ..... v, 94
Metallurgy :—
Course in ..... iii, 54
Laboratories ..... iii, 98, 126
Subject of ..... iii, 96
Metallurgical Engineering, Course in ..... iii, 52
Metaphysics ..... ii, 88
Microscopy ..... v, 87
Middle English ..... ii, 74
Military Courses ..... i, 9, 112
Mineral Analysis ..... iii, 72
Mineralogy ..... ii, 103; iii, 83
Mining Building, The Macdonald ..... i, 77
Mining Engineering :—
Course in ..... iii, 56
Laboratories ..... iii, 102, 127
Subject of ..... iii, 100
Mining Institute, The Canadian ..... iii, 113
Modern Languages ..... ii, 77
Mœso-Gothic ..... ii, 75
Moral Philosophy ..... ii, 89
Morals, Regulations re ..... i, 68

PAGE

M. Sc. Degree, Requirements for ..... i, 8, 120
Municipal Engineering ..... iii, 78
Municipal Law ..... iv, 16
Museums ..... i, 86
Music, Courses in ..... i, 9, 108

Neil Stewart Prize ..... i, 50
Notarial Law, Courses in ..... iv, 17

Obligations, Courses in Law of ..... iv, 14
Observatory, The ..... iii, 124
Obstetrics ..... v, 90
Oscillograph Laboratory ..... iii, 124
Officers of Instruction, etc ..... i, xv
Operation of Railways ..... iii, 110
Ophthalmology ..... v, 92
Ordinary Course for B.A. ..... ii, 50
Ordinary Course for B.Sc. in Arts ..... ii, 56
Ore Deposits ..... ii, 105; iii, 84
Ore Dressing ..... iii, 100
Ore Dressing Laboratory ..... iii, 100, 127
Organic Chemistry ..... iii, 71
Organization of Railways ..... iii, 109
Oriental Languages ..... ii, 83
Oto-Laryngology ..... v 93

Palæontology ..... ii, 105
Parasitology ..... v, 81
Partnership ..... iv, 15
Partial Students, Definition of ..... i, 33
Regulations for Entrance ..... i, 33
Pass Standard for Matriculation ..... i, 14
Passenger Service ..... iii, 110
Pathological Museum ..... v, 107
Pathology ..... v, 79
Patternmaking ..... iii, 92
Pedagogy ..... ii, 95; iv, 13
Persons, Courses in Law of ..... iv, 15
Peter Redpath Museum ..... i, 77, 88
Petrography ..... ii, 104; iii, 83
Petrographical Laboratory ..... iii, 129
Pharmacology and Therapeutics ..... v, 82
Ph. D. Degree, Requirements for ..... i, 8, 121
Philosophy ..... ii, 88
Physical Chemistry ..... ii, 102; iii, 72
Physical Education ..... i, 71, 125
Physical Examination ..... i, 32

| | PAGE |
|---|---|
| Physical Geography:— | |
| Courses in | ii, 105; iii, 84, 111 |
| For Matriculation | i, 30 |
| Physiological Laboratories | i, 85 |
| Physiology | ii, 108; v, 75 |
| Physics Building, The Macdonald | i, 77 |
| Laboratories | iii, 104, 109 |
| Physics:— | |
| Courses in Arts | ii, 99 |
| " " Applied Science | iii, 104 |
| " " Medicine | v, 73 |
| For Matriculation | i, 30 |
| Pleading and Practice | iv, 18 |
| Political Economy | ii, 93 |
| Political Science | ii, 93 |
| Post-Graduate Courses in Medicine | v, 96 |
| Power Station | i, 78 |
| Prerequisite Subjects | iii, 114 |
| Presbyterian College | i, 5 |
| Prescription | iv, 16 |
| Principal, The | i, ix, 3 |
| Prizes in Arts | i, 50 |
| In Applied Science | i, 51 |
| In Gymnastics | i, 72 |
| In Law | i, 54 |
| In Medicine | i, 54 |
| Procedure, Courses in Civil | iv, 16 |
| Professors, List of | i, xv |
| Promotion in Arts, Rules re | ii, 59 |
| Psychology | ii, 89 |
| Psychological Laboratory | i, 85 |
| Public Health, Diploma Course for | v, 97 |
| Qualitative Analysis | iii, 71 |
| Quantitative Analysis | iii, 72 |
| Railway Engineering | iii, 108, 111 |
| Railway Law | iii, 111 |
| Railway Operation | iii, 110 |
| Railway Organization and Accounting | iii, 109 |
| Railway Rates | i, 41 |
| Railway Scholarships | i, 51 |
| Railways:— | |
| Course in | iii, 58 |
| Subjects of Course in | iii, 108 |

| | Page |
|---|---|
| Real Property Law | iv, 17 |
| Register of Students | vi, 11 |
| Registrars of Provincial Medical Councils | i, 103 |
| Registration | i, 36 |
| Reinforced Concrete | iii, 76 |
| Requirements for Entrance | i, 13 |
| Residence and Board | i, 39 |
| For Women | i, 125 |
| Rhodes Scholarship | i, 42 |
| Roman Law, Courses in | ii, 96 |
| Ross (P.S.) Exhibition | i, 43 |
| Royal Victoria College for Women | i, 78, 123 |
| Sanskrit | ii, 69 |
| Scholarships in Arts | i, 43, 48 |
| In Applied Science | i, 51 |
| H. M. Comsrs. for the Exhibition of 1851 | i, 42 |
| Robert Jones' | i, 53 |
| Rhodes | i, 42 |
| Sterry Hunt | i, 43 |
| And see Exhibitions. | |
| School of Commerce | ii, 110 |
| School for Teachers | i, 130 |
| Second Year Course in Arts | ii, 51 |
| In Applied Science | iii, 38 |
| Second Year Exhibitions | ii, 37 |
| Semitic Languages | ii, 83 |
| Session, Duration of | i, 34 |
| Shakspere Society's Prize | i, 50 |
| Shopwork | iii, 88 |
| Shorthand | iii, 112 |
| Singing, Courses in | i, 9, 108 |
| Signals | iii, 110 |
| Smith Shop Work | iii, 88 |
| Societies, Associations, and Clubs, Officers of | vi, 46 |
| Spanish | ii, 83 |
| Special Certificates in Arts | ii, 47 |
| Spherical Trigonometry | ii, 97 |
| Standardizing Laboratory | iii, 122 |
| Statics | ii, 98 |
| Strathcona Hall | i, 79 |
| Strength of Materials | iii, 75 |
| Strength of Materials Laboratories | iii, 75, 130 |
| Structural Engineering | iii, 68, 76 |

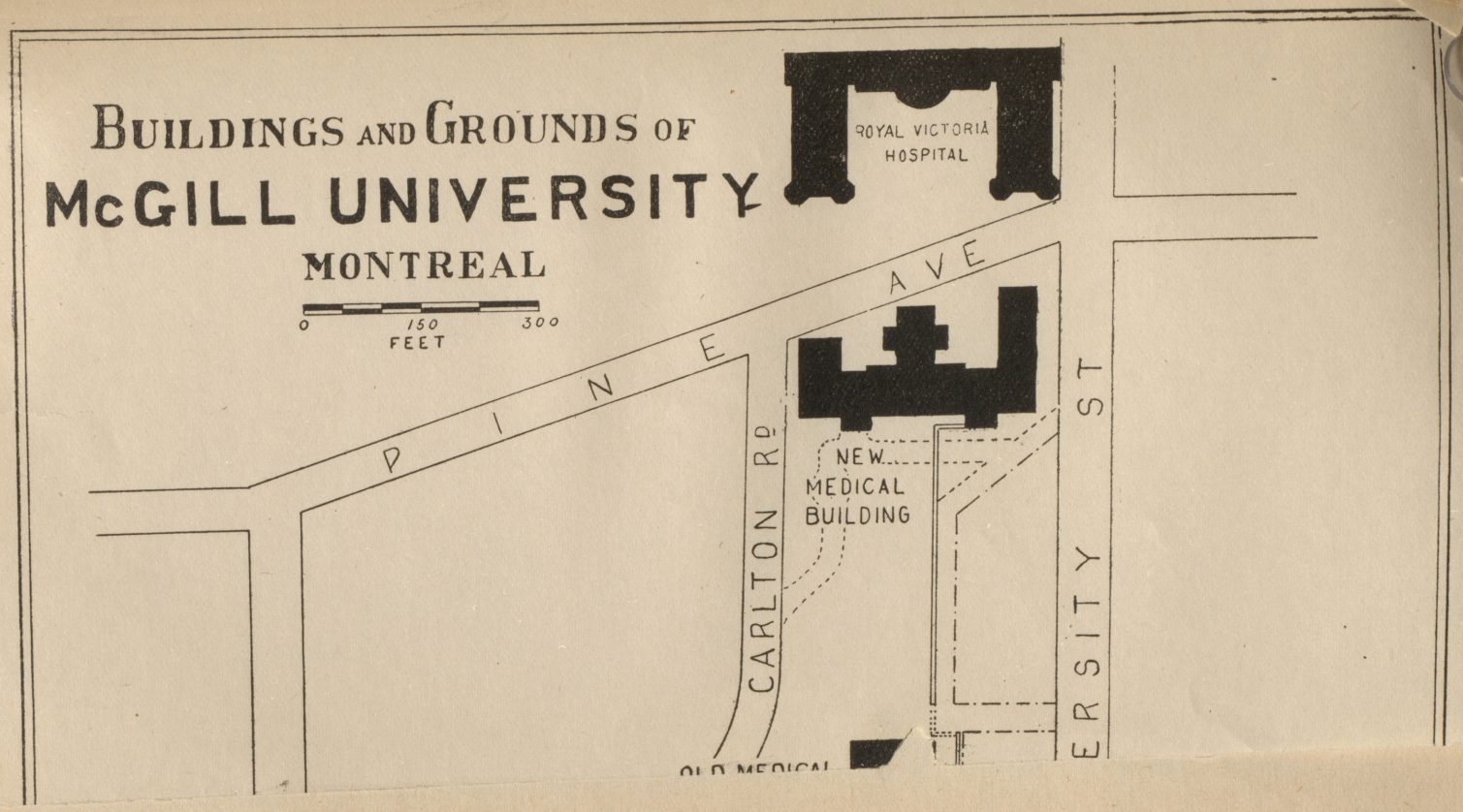
| | Page |
|---|---|
| Students, Classes of | i, 33 |
| Lists of | vi, 11 |
| Number in Attendance | vi, 45 |
| Subjects for Matriculation | i, 16 |
| Successions, Courses in the Law of | iv, 16 |
| Summer Schools | i, 34 |
| In French | i, 35 |
| In Library Methods | i, 34 |
| In Metallurgy | iii, 97 |
| In Mining | iii, 103 |
| In Surveying | iii, 106 |
| Summer Work in Applied Science | iii, 60 |
| Supplemental Examinations in Arts | ii, 60 |
| In Applied Science | iii, 35 |
| In Medicine | v, 61 |
| Surgery | v, 88 |
| Surveying | iii, 105 |
| Syriac | ii, 85 |
| Teachers, School for | i, 8 |
| Telegraphy | iii, 112 |
| Text Books for Matriculation | i, 21 |
| Text Books in Medicine | v, 64 |
| Theological Colleges, Affiliation of | i, 5 |
| Theory of Structures | iii, 76 |
| Therapeutics | v, 82 |
| Thermodynamics | iii, 91 |
| Laboratory | iii, 125 |
| Third Year Courses in Arts | ii, 52 |
| Third Year Scholarships | ii, 39 |
| Time Tables of Examinations in Arts | ii, 9 |
| Time Tables of Lectures in Arts | ii, 8 |
| Trigonometry: - | |
| Courses in | ii, 97; iii, 67, 68 |
| For Matriculation | i, 29 |
| Undergraduates, Definition of | i, 33 |
| Union, The McGill | i, 39, 78 |
| University Athletic Association | i, 71 |
| University Buildings | i, 75 |
| University College of British Columbia | i, 4 |
| University, Government of | i, 3 |
| University Library, The | i, 78, 115 |

| | Page |
|---|---|
| Ventilation | iii, 94 |
| Victoria College for Women, The Royal | i, 78, 123 |
| Water Supply | iii, 78 |
| Wesleyan College | i, 5 |
| Workshops, Instruction in | iii, 88 |
| Year Promotion in Arts | ii, 59 |
| In Applied Science | iii, 34 |
| Y.M.C.A. of McGill University | i, 79 |
| Zoological Laboratories | i, 86 |
| Zoology | ii, 108 |

# McGILL UNIVERSITY

## Buildings and Grounds of

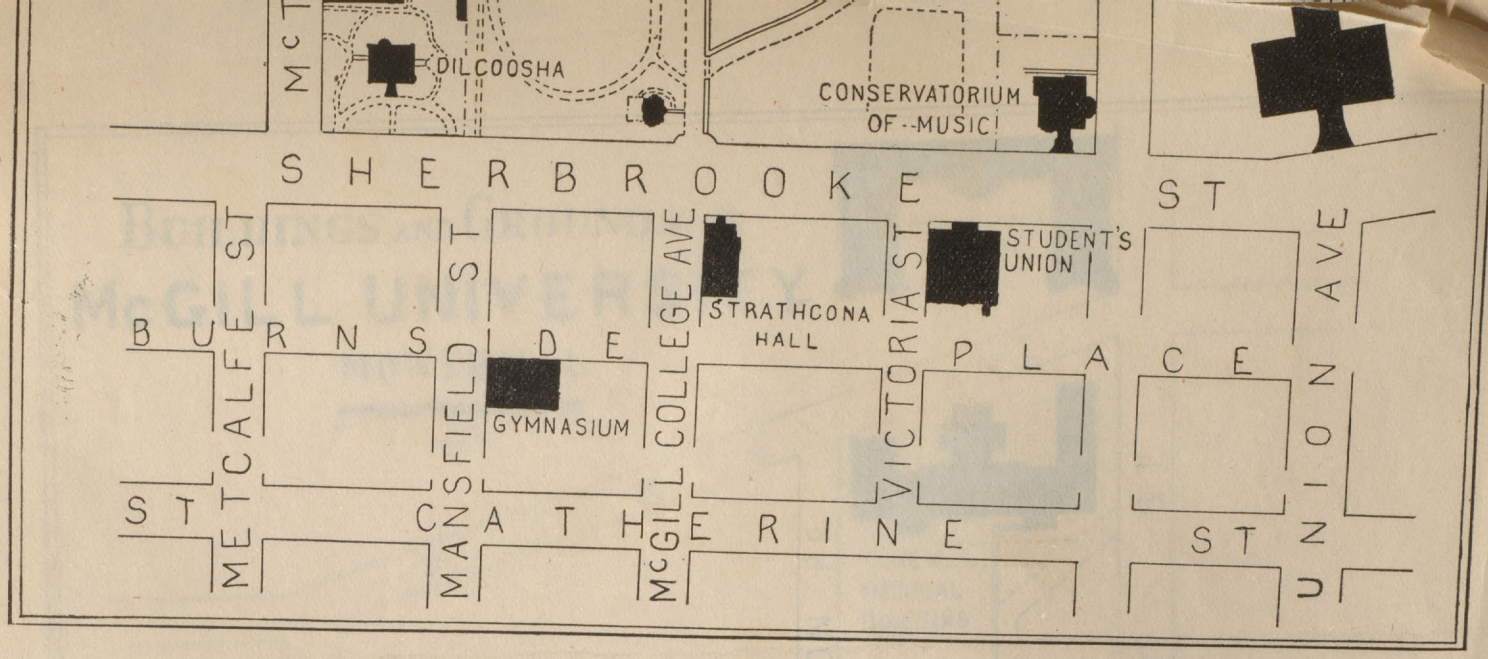
MONTREAL

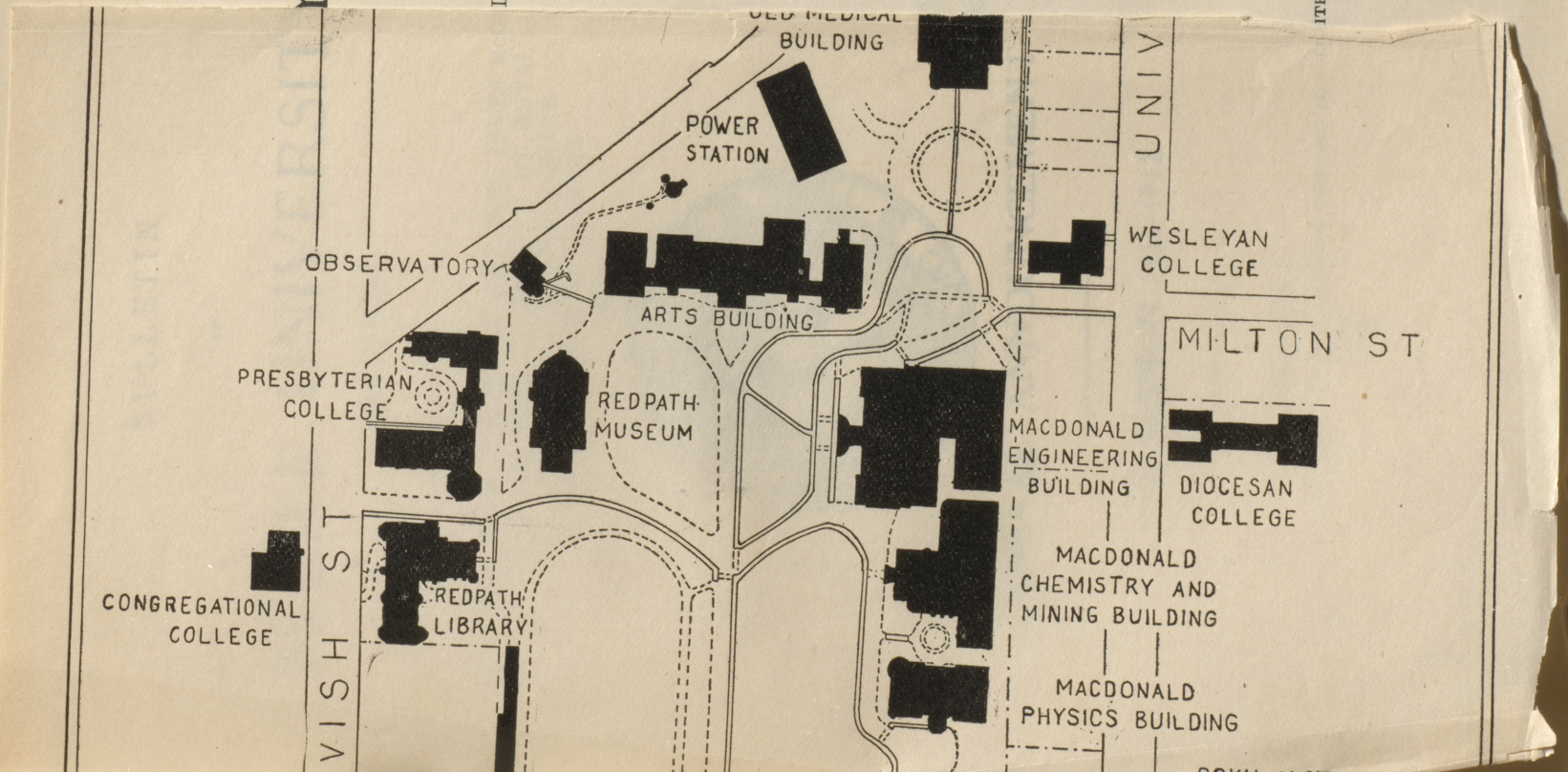

BUILDINGS AND GROUNDS OF
McGILL UNIVERSITY
MONTREAL
0
150
300
FEET
ROYAL VICTORIA
HOSPITAL
PINE AVE
CARLTON Rd
NEW
MEDICAL
BUILDING
ERSITY ST

Y

ILL;

ITED


DILCOOSHA
CONSERVATORIUM OF MUSIC
SHERBROOKE ST
STUDENT'S UNION
STRATHCONA HALL
GYMNASIUM
BURNSIDE PLACE
METCALFE ST
MANSFIELD ST
COLLEGE AVE
VICTORIA ST
UNION AVE
CATHERINE ST
McGILL


BUILDING
POWER STATION
OBSERVATORY
ARTS BUILDING
WESLEYAN COLLEGE
MILTON ST
PRESBYTERIAN COLLEGE
REDPATH MUSEUM
MACDONALD ENGINEERING BUILDING
DIOCESAN COLLEGE
CONGREGATIONAL COLLEGE
REDPATH LIBRARY
MACDONALD CHEMISTRY AND MINING BUILDING
MACDONALD PHYSICS BUILDING

OLD MEDICAL
E F
COLLEGE
CONSERVATORY
OBSERVATORY
PRESBYTERIAN
COLLEGE
LIBRARY
MUSEUM
REDPATH
STATUE
ROYAL
BUILDING
ARTS
BUILDING
MINING BUILDING
CHEMISTRY AND
MACDONALD
ENGINEERING
MACDONALD
COLLEGE
DIOCESAN
COLLEGE
MESSIAH
MILTON ST
UNIV

BULLETIN

OF

# McGILL UNIVERSITY

MONTREAL.

---

FOUNDED UNDER BEQUEST OF THE HON. JAMES McGILL;
ESTABLISHED AS A UNIVERSITY BY ROYAL
CHARTER IN 1821, AND REORGANIZED
UNDER AN AMENDED CHARTER
IN 1852.

## GENERAL ANNOUNCEMENT

## FOR SESSION 1911-1912

MONTREAL:

PRINTED FOR THE UNIVERSITY BY THE GAZETTE PRINTING CO., LIMITED

1911

# INDEX.


| | PAGE. |
|---|---|
| Academic Board | 3 |
| Academic Year | 34 |
| Academic Dress | 73 |
| **Admission** | 13 |
| Of Partial Students | 33 |
| Of Students from other Universities | 31 |
| Ad eundem gradum | 11 |
| Ad eundem Degrees | 11 |
| Advanced Courses in Arts | 91 |
| Advanced Exhibitions, Faculty of Arts | 45 |
| Affiliated Colleges | 4, 5 |
| Age for Admission | 33 |
| Agriculture, Faculty of | 8, 128 |
| Algebra for Matriculation | 24 |
| Anatomical Museum | 86 |
| Annie McIntosh Prize | 51 |
| **Applied** Science, Faculty of | 7, 98 |
| Arithmetic for Matriculation | 21 |
| **Arts**, Faculty of | 6, 90 |
| Assaying Laboratories | 80 |
| Associations, see Societies. | |
| Astronomical Observatory | 80 |
| Athletics | 69 |
| Athletic Association | 71 |
| Attendance, Rules regarding | 37 |
| B.A. Degree, Regulations | 6, 90 |
| Course for | 91 |
| Exemptions for Professional Students | 95 |
| Honour Courses for | 93, 94 |
| B.A. and B.C.L | 96 |
| B.A. and B.Sc | 95 |
| B.A. and M.D | 95 |
| Bachelor of Music | 109 |
| B. Arch. Degree | 7 |
| B.C.L. Degree | 7, 101 |
| B.Sc. and M.D | 95 |
| B.Sc. Degree, Course for in Faculty of Arts | 6, 93 |
| In Faculty of Applied Science | 7, 98 |
| Board of Governors | ix |
| Their Powers | 3 |
| Board and Residence | 39 |
| In Macdonald College | 130 |
| In Royal Victoria College for Women | 125 |
| Botanical Laboratories | 80 |
| Botany for Matriculation | 30 |
| British Association Exhibitions | 51 |
| British Columbia, McGill University College of | 4 |
| B.S.A. Degree | 8, 132 |
| Buildings | 75 |
| Bursaries (James Douglas) | 53 |

| | PAGE. |
|---|---|
| Carpenter Shop Instruction | 89 |
| Caution Money | 61-65 |
| Cement Laboratory | 80 |
| Centre Building | 75 |
| Certificates Accepted for Matriculation | 15 |
| In Applied Science | 57 |
| In Arts | 56 |
| Of Literate in Arts | 6 |
| Chemistry Building, The Macdonald | 77 |
| Chemistry for Matriculation | 30 |
| Chemical Laboratories | 81 |
| Classification of Students | 33 |
| Clubs, see Societies. | |
| Colleges, Affiliated | 4 |
| College Grounds, Management of | 69 |
| Colleges, Incorporated | 4 |
| Commerce, Diploma of | 7 |
| Composition, English, for entrance | 21 |
| Conditioned Undergraduates | 33 |
| Conduct of Students | 68 |
| Congregational College | 5 |
| Conservatorium of Music | 9, 75, 108 |
| Constitution of the University | 3 |
| Coster Memorial Prize | 50 |
| Courses for B.A., B.Arch., B.C.L., B.Sc., M.D. and D.D.S. | 6-9 |
| Course for B.A | 91 |
| Course for B.C.L | 101 |
| Course for B.Sc. in Applied Science | 98 |
| Course for B.Sc. in Arts | 93 |
| Course in Dentistry | 106 |
| Course for M.D., C.M | 104 |
| Dates for Session 1911-1912 | 34 |
| D.C.L. Degree, Requirements for | 11 |
| D.D.S. Degree, Requirements for | 8, 106 |
| D.Litt. Degree, Requirements for | 10 |
| D.Sc. Degree, Requirements for | 11 |
| Degrees granted by the University | 10 |
| Ad eundem | 11 |
| Dental Department, Faculty of Medicine | 8, 106 |
| Dentistry, Course in | 106 |
| Department of Music | 108 |
| Diocesan College | 5 |
| Diploma of Commerce | 6 |
| Diploma of Licentiate in Music | 108 |
| Discipline | 68 |
| Doctor of Music | 111 |
| Doctor of Philosophy, course for | 121 |
| Double Courses :— | |
| Arts and Applied Science | 95 |
| " " Law | 96 |
| " " Medicine | 95 |
| " " Theology | 97 |
| Dress, Academic | 73 |
| Early English Text Society's Prize | 50 |
| Electrical Laboratories | 81 |
| Engineering Building | 76 |
| Engineering, Courses in | 98 |
| English for Matriculation | 21 |
| English Composition for entrance | 21 |
| English Grammar for Matriculation | 21 |
| Entrance Examination for Agriculture | 20, 129 |

# INDEX.


| | PAGE. |
|---|---|
| Entrance Examination for Applied Science | 18 |
| Entrance Examination for Arts | 16 |
| Entrance Examination for Dentistry | 18 |
| Entrance Examination for Law | 19 |
| Entrance Examination for Medicine | 18 |
| Entrance Examination for Music | 20 |
| Entrance Requirements in each Subject | 21 |
| Entrance Examination | 13 |
| Into Second Year | 31 |
| Equivalent Standing for Students from other Universities | 32 |
| Examinations :— | |
| For Entrance | 13 |
| For Exhibitions (in Arts) | 45 |
| For Scholarships (in Arts) | 48 |
| Exemptions from Matriculation Examination | 15 |
| Exemptions in Arts for Students in Professional Faculties | 95 |
| **Exhibitions:—** | |
| First Year Entrance in Arts | 45 |
| For Graduates of School for Teachers | 44 |
| In Applied Science | 51 |
| In Law | 54 |
| In Medicine | 54 |
| In Music | 55 |
| Mackenzie | 49 |
| Ross, P. S | 43 |
| Second Year in Arts | 47 |
| And see Scholarships. | |
| Expenses of Board and Residence | 40, 41 |
| **Faculties**, General Statement of | 6 |
| Faculty of Applied Science | 7, 98 |
| Of Arts | 6, 90 |
| Of Law | 7, 101 |
| Of Medicine | 8, 103 |
| Of Agriculture | 8, 128 |
| **Fees :—** | |
| In Applied Science | 61 |
| In Arts | 59 |
| In Dentistry | 64 |
| In the Graduate School | 65 |
| In Law | 65 |
| In Macdonald College | 130 |
| In Medicine | 62 |
| In Music | 66 |
| For Matriculation | 16 |
| Miscellaneous | 67 |
| Fellows of the University | 3 |
| Fellowships in Applied Science | 53 |
| Foundation of the University | 1 |
| Foundry work | 89 |
| French for Matriculation | 23 |
| Geodetic Laboratory | 81 |
| Geography for Matriculation | 21 |
| Geometry for Matriculation | 24, 27 |
| German for Matriculation | 23 |
| Government of the University | 3 |
| Governors, Board of | ix |
| Their Powers | 3 |
| Gowns | 73 |
| Graduate School | 8, 118 |

| | PAGE. |
|---|---|
| Graduate Students | 33 |
| Greek for Matriculation | 22 |
| Grounds, Management of | 69 |
| Gymnasia | 71 |
| Higher Degrees | 10 |
| History for Matriculation | 21 |
| History of the University | 1 |
| Hoods | 73 |
| Honour Courses for B.A | 93 |
| Honour Courses for B.Sc | 94 |
| Household Science | 8, 130 |
| Hydraulic Laboratory | 82 |
| Hygiene, Museum of | 86 |
| Incorporated Colleges | 4 |
| Instruction, Officers of | xv |
| Laboratories | 80 |
| Latin for Matriculation | 22 |
| **Law**, Faculty of | 7, 101 |
| Library Instruction, Summer School in | 34 |
| Library, The University | 78, 115 |
| Licentiate in Music, Diploma of | 108 |
| Literate in Arts, Certificate of | 6 |
| LL.D. Degree, Requirements for | 11 |
| Lodgings | 39 |
| For Women | 125 |
| M. A. Degree | 8, 119 |
| Macdonald Chemistry and Mining Building | 77 |
| Macdonald College | 8, 128 |
| Macdonald Engineering Building | 76 |
| Macdonald Physics Building | 77 |
| Mackenzie Exhibitions | 49 |
| M.D. Degree | 8, 104 |
| **Matriculation Examination** | 13 |
| Certificates accepted for | 15 |
| Details of work in each Subject | 21 |
| Fees for | 16 |
| Regulations | 13, 14 |
| Time Table | 31 |
| Matriculation Exhibitions | 45 |
| McCarthy (J. M.) Prize | 51 |
| McGill College, Founding of | 1 |
| McGill Union, The | 39, 78 |
| McGill University College of British Columbia | 4 |
| McGill Y. M. C. A | 79 |
| Mechanical Engineering Laboratory | 82 |
| Medals in Arts | 56 |
| For Physical Education | 72 |
| In Applied Science | 57 |
| In Law | 57 |
| In Medicine | 58 |
| **Medicine**, Faculty of | 8, 103 |
| Medical Building | 75 |
| Medical Council Registrars | 103 |
| Metallurgical Laboratories | 82 |
| Military Courses | 9, 112 |
| Mining Building, The Macdonald | 77 |
| Mining Laboratories | 83 |
| Morals, Regulations re | 68 |

| | PAGE. |
|---|---|
| M.Sc. Degree, Requirements for | 8, 120 |
| Museums | 86 |
| Music, Courses in | 9, 108 |
| Neil Stewart Prize | 50 |
| Observatory, The | 78 |
| Ore Dressing Laboratory | 83 |
| Ordinary Course for B.A | 91 |
| Ordinary Degrees | 10 |
| Oscillograph Laboratory | 83 |
| Officers of Instruction, etc | xv |
| Partial Students, Definition of | 33 |
| Pathological Museum | 87 |
| Peter Redpath Museum | 77, 88 |
| Petrographical Laboratory | 84 |
| Ph.D. Degree, Requirements for | 8, 121 |
| Physical Education | 71, 125 |
| Physical Examination | 32 |
| Physical Laboratories | 84 |
| Physics for Matriculation | 30 |
| Physics Building, The Macdonald | 77 |
| Physiography for Matriculation | 30 |
| Physiological Laboratories | 85 |
| Power Station | 78 |
| Presbyterian College | 5 |
| Principal, The | ix, 3 |
| Prizes in Arts | 50 |
| In Applied Science | 51 |
| In Gymnastics | 72 |
| In Law | 54 |
| In Medicine | 54 |
| Psychological Laboratory | 85 |
| Public Health, Diploma of | 8 |
| Railway Rates | 41 |
| Railway Scholarships | 51 |
| Redpath Museum | 77, 88 |
| Registrars of Provincial Medical Councils | 103 |
| Registration | 36 |
| Requirements for Entrance | 13 |
| Residence and Board | 39 |
| For Women | 125 |
| Rhodes Scholarship | 42 |
| Ross (P.S.) Exhibition | 43 |
| Royal Victoria College for Women | 78, 123 |
| Scholarships in Arts | 43, 48 |
| In Applied Science | 51 |
| H. M. Comsrs.' for the Exhibition of 1851 | 42 |
| Robert Jones' | 53 |
| Rhodes | 42 |
| Sterry Hunt | 43 |
| And see Exhibitions. | |
| School for Teachers | 130 |
| Science Scholarship, 1851 | 42 |
| Second Year Exhibitions | 47 |
| **Session**, Duration of | 34 |
| Shakspere Society's Prize | 50 |
| Shopwork | 100 |
| Singing, Courses in | 9, 108 |
| Societies | 133 |

| | PAGE. |
|---|---|
| Standardizing Laboratory | 85 |
| Sterry Hunt Scholarship | 43 |
| Strathcona Hall | 79 |
| Strength of Materials Laboratories | 85 |
| Student Societies | 133 |
| Students, Classes of | 33 |
| Number in Attendance | 134 |
| Subjects for Matriculation | 16 |
| Summer Schools | 34 |
| In French | 35 |
| In Library Methods | 34 |
| Summer Work in Applied Science | 99 |
| Teachers, School for | 8 |
| Text Books for Matriculation | 21 |
| Theological Colleges, Affiliation of | 5 |
| Thermodynamics Laboratory | 85 |
| Third Year Scholarships | 48 |
| Trigonometry for Matriculation | 29 |
| Undergraduates, Definition of | 33 |
| Union, The McGill | 39, 78 |
| University Athletic Association | 71 |
| University Buildings | 75 |
| University, Government of | 3 |
| University Library, The | 78, 115 |
| Wesleyan College | 5 |
| Workshops | 89 |
| Zoological Laboratories | 86 |

# Governing Body of the University.

## VISITOR.

HIS EXCELLENCY THE RIGHT HONOURABLE
EARL GREY, G.C.M.G., LL.D.,
GOVERNOR-GENERAL OF CANADA, ETC.

## GOVERNORS.

THE RIGHT HON. LORD STRATHCONA AND MOUNT ROYAL, G.C.M.G, LL.D. (Hon. Cantab.), President and Chancellor of the University.
WILLIAM PETERSON, M.A., LL.D., C.M.G., Principal and Vice-Chancellor.
SIR WILLIAM C. MACDONALD.
GEORGE HAGUE, ESQ.
EDWARD B. GREENSHIELDS, ESQ., B.A., LL.D.
HON. JOHN SPROTT ARCHIBALD, M.A., D.C.L.
CHARLES J. FLEET, ESQ., B.A., B.C.L., K.C.
RICHARD B. ANGUS, ESQ.
SIR WILLIAM C. VAN HORNE, K.C.M.G.
JAMES ROSS, ESQ.
SIR EDWARD S. CLOUSTON, BART.
ROBERT REFORD, ESQ.
CHARLES M. HAYS, ESQ.
THOMAS G. RODDICK, M.D., LL.D.
W. M. BIRKS, ESQ.
G. E. DRUMMOND, ESQ.
J. W. ROSS, ESQ.
JAMES DOUGLAS, ESQ., B.A., M.D., LL.D.
F. HOWARD WILSON, ESQ.
CHARLES B. GORDON, ESQ.

## PRINCIPAL.

WILLIAM PETERSON, M.A., LL.D., C.M.G., Vice-Chancellor.

## FELLOWS.

*Ex-Officio.*

CHAS. E. MOYSE, LL.D., Vice-Principal and Dean of the Faculty of Arts.
FRANK D. ADAMS, Ph.D., D.Sc., F.R.S., Dean of the Faculty of Applied Science.
F. P. WALTON, B.A., LL.B., LL.D., Dean of the Faculty of Law.
FRANCIS J. SHEPHERD, M.D., LL.D., Dean of the Faculty of Medicine.
F. C. HARRISON, D.Sc., Principal of Macdonald College.
S. B. SINCLAIR, Ph.D., Head of the Teachers' Training Department Macdonald College.

H. C. PERRIN, MUS DOC., Director of the McGill Conservatorium of Music.
ETHEL HURLBATT, M.A., Warden of the Royal Victoria College.
WELLINGTON DIXON, B.A., Rector of the Montreal High Schools.

*To retire 1st September, 1912.*

ANDREW MACPHAIL, B.A., M.D., Representative Fellow in Arts.
REV. JAMES BARCLAY, M.A., D.D., LL.D., Governors' Fellow.
S. B. LEACOCK, Ph.D., Elective Fellow, Faculty of Arts.
J. A. DALE, M.A., Elective Fellow, Faculty of Arts.
_____ Representative Fellow, Montreal Wesleyan Theological College, Principal of the College.
MILTON L. HERSEY, D.Sc., Representative Fellow in Applied Science.
GEORGE E. ROBINSON, B.A., Representative Fellow, McGill University College of British Columbia, Vancouver, B.C.
J. G. ADAMI, M.A., M.D., LL.D., Governors' Fellow.
FRANCIS MCLENNAN, B.A., B.C.L., Governors' Fellow.
E. B. PAUL, M.A., Representative Fellow, Victoria College, B.C.
J. R. DOUGALL, M.A., Governors' Fellow.

*To retire 1st September, 1913.*

W. D. LIGHTHALL, M.A., B.C.L., Representative Fellow in Arts.
R. F. RUTTAN, B.A., M.D., F.R.S.C., Elective Fellow, Faculty of Medicine.
C. H. GOULD, B.A., Governors' Fellow.
HOWARD T. BARNES, D.Sc., F.R.S., Elective Fellow, Faculty of Arts.
REV. E. M. HILL, D.D., Representative Fellow, Congregational College of Canada, Principal of the College.
W. GRANT STEWART, B.A., M.D., Representative Fellow in Medicine.
REV. E. I. REXFORD, M.A., LL.D., Representative Fellow, Montreal Diocesan Theological College, Principal of the College.
ALFRED STANSFIELD, D.Sc. (London), A.R.S.M., Elective Fellow, Faculty of Applied Science.
HON. ROBERT STANLEY WEIR, D.C.L., Representative Fellow in Law.

*To retire 1st September, 1914.*

REV. JOHN SCRIMGER, M.A., D.D., Representative Fellow, Presbyterian College, Montreal, Principal of the College.
J. W. WALKER, Ph.D., F.R.S.C., Elective Fellow, Faculty of Arts.
J. M. ELDER, B.A., M.D., Representative Fellow in Medicine.
C. H. MCLEOD, MA.E., F.R.S.C., Representative Fellow in Applied Science.
E. E. HOWARD, B.A., B.C.L., Representative Fellow in Law.
ARCHIBALD MCGOUN, M.A., B.C.L., K.C., Elective Fellow, Faculty of Law.
J. CHALMERS CAMERON, M.D., Elective Fellow, Faculty of Medicine.
H. M. MACKAY, B.A., B.A.Sc., Elective Fellow, Faculty of Applied Science.
_____ Governors' Fellow.
W. W. WHITE, B.A., M.D., F.R.C.S., St. John, N.B., non-resident Representative Fellow (Maritime Provinces and Newfoundland).

H. M. Tory, D.Sc., LL.D., Edmonton, Alta., non-resident Representative Fellow (British Columbia, Alberta, Saskatchewan and Manitoba).

P. D. Ross, B.A. Sc., Ottawa, non-resident Representative Fellow (Ontario).

Robert D. MacArthur, M.D., Chicago, Ill., non-resident Representative Fellow (countries outside of Canada and Newfoundland).

(The Governors, Principal and Fellows constitute, under the Charter, the Corporation of the University. For powers see page 3.)

**SECRETARY AND BURSAR:**

Walter Vaughan, Office, East Wing, McGill College.

**UNIVERSITY REGISTRAR:**

J. A. Nicholson, M.A., Office, East Wing, McGill College.

*Office Hours*:—9 *to* 5.

**REGISTRAR OF THE FACULTY OF MEDICINE:**

J. W. Scane, M.D., Medical Building, McGill University.

**UNIVERSITY LIBRARIAN:**

Charles H. Gould, B.A.

**HONORARY REPRESENTATIVE IN GREAT BRITAIN:**

W. A. Evans, Esq., M.A., Secretary Headmasters' Conference, 12 King's Bench Walk, Temple, London, E. C.

---

**THE ACADEMIC BOARD:**

(*Regular Meetings on the first Wednesday of December and March at* 8.15 *p.m.*)

Chairman—The Principal.

The Principal, the Deans of the several Faculties, the Professors and Associate Professors, and other members, not exceeding ten in number, of the teaching staff of the University, have been constituted, under the statutes, the Academic Board of the University, with the duty of considering such matters as pertain to the interests of the University as a whole and making recommendations concerning the same.

# Committees.

## FINANCE COMMITTEE OF THE GOVERNORS.

(Meeting on the second Thursday of each month, at 4 p.m.)

E. B. Greenshields, Esq.
C. J. Fleet, Esq.
W. M. Birks, Esq.
G. E. Drummond, Esq.
F. Howard Wilson, Esq.
Charles B. Gordon, Esq.
R. B. Angus, Esq.
Principal Peterson.
J. W. Ross, Esq.

## UNIVERSITY LIBRARY COMMITTEE.

(Meeting on the Monday before each Regular Meeting of Corporation, at 5 p.m.)

*Members ex-Officio.*

Dr. W. Peterson, (Principal), Chairman.
Mr. C. H. Gould (Librarian), Secretary.

*To retire in* 1911.

——— ——— (*Representing Arts*).
Prof. R. J. Durley (*Representing Applied Science*).
Dr. Wm. Gardner (*Representing Corporation*).

*To retire in* 1912.

Prof. J. A. Dale, (*Representing Arts*).
Dr. F. G. Finley (*Representing Medicine*).
Francis McLennan, Esq., B.A., B.C.L. (*Representing Corporation.*

*To retire in* 1913.

C. J. Fleet, Esq., B.A., B.C.L. (*Representing the Governors*).
Robert Reford, Esq. (*Representing the Governors*).
Dr. F. P. Walton (*Representing Law*).
S. H. C. Miner, Esq. (*Representing Corporation*).
J. R. Dougall, Esq., M.A. (*Representing Corporation*).
W. D. Lighthall, M.A., B.C.L. (*Representative Fellow*).

## REDPATH MUSEUM COMMITTEE.

(Meeting on the Monday before each Regular Meeting of Corporation, at 4.30 p.m.)

Principal Peterson, Chairman.
George Hague, Esq.
C. J. Fleet, Esq.
Dr. F. J. Shepherd.
Dr. F. D. Adams.
Dr. Arthur Willey, Hon Curator.

## Committees.—Continued.

### PHYSICS BUILDING COMMITTEE.

(Meeting on the Thursday before each Regular Meeting of Corporation, at 5 p.m.)

PRINCIPAL PETERSON.
DR. F. D. ADAMS.
DR. R. F. RUTTAN.
DR. H. T. BARNES.
PROF. JAMES HARKNESS.
DR. H. A. WILSON.

### ENGINEERING BUILDING COMMITTEE.

(Meeting on the third Monday of each month at 4.30 p.m.)

PRINCIPAL PETERSON.
DEAN ADAMS.
C. J. FLEET, Esq.
PROF. C. H. MCLEOD.
PROF. R. J. DURLEY.
PROF. L. A. HERDT.

### CHEMISTRY AND MINING BUILDING COMMITTEE.

(Meeting on the third Monday of each month at 4 p.m.)

PRINCIPAL PETERSON.
DEAN ADAMS.
C. J. FLEET, Esq.
DR. J. B. PORTER.
DR. J. W. WALKER.

### RAILROAD TRANSPORTATION COMMITTEE.

PRINCIPAL PETERSON, Chairman.
SIR THOMAS G. SHAUGHNESSY.
C. M. HAYS, Esq.
DEAN ADAMS.
C. J. FLEET, Esq.
D. MCNICOLL, Esq.
PROF. H. O. KEAY.

### COMMITTEE ON GRADUATE STUDIES.

PROF. JAMES HARKNESS, *Chairman.*
DR. F. D. ADAMS.
PROFESSOR R. J. DURLEY.
PROF. H. M. MACKAY.
DR. H. WALTER.
DR. F. P. WALTON.
DR. CYRUS MACMILLAN, *Secretary.*
PROFESSOR JAMES HARKNESS.
DR. H. T. BARNES.
DR. C. W. COLBY.

### COMMITTEE ON MORALS AND DISCIPLINE.

DR. C. E. MOYSE, *Chairman.*
DR. F. D. ADAMS.
DR. F. P. WALTON.
HON. MR. JUSTICE ARCHIBALD.
DR. F. J. SHEPHERD.
REV. DR. JAMES BARCLAY.

### COMMITTEE ON STUDENTS' SOCIAL FUNCTIONS.

DR. C. E. MOYSE, *Chairman.*
DR. F. P. WALTON.
DR. F. J. SHEPHERD.
PROF. C. H. MCLEOD.
DR. F. D. ADAMS.
DR. R. F. RUTTAN.
MISS ETHEL HURLBATT.

## Committees. – Continued.

### McGILL CONSERVATORIUM COMMITTEE.

PRINCIPAL PETERSON, *Chairman.*

DR. H. C. PERRIN, Director.
DR. C. E. MOYSE.
J. H. BURLAND, ESQ.
JAMES ROSS, ESQ.
DR. J. B. PORTER.
MISS CLARA LICHTENSTEIN.
W. VAUGHAN, ESQ.
KENNETH R. MACPHERSON, ESQ.

C. M. MACFARLANE, B.A., *Secretary.*

### COMMITTEE ON MILITARY INSTRUCTION.

DR. W. PETERSON.
PROF. PERCY E. NOBBS.
PROF. R. J. DURLEY.
DR. H. S. BIRKETT.
DR. L. R. GREGOR.

### ADVISORY BOARD OF THE McGILL UNION.

C. J. FLEET, ESQ.
DR. WILLIAM CALDWELL.
PROF. N. N. EVANS.
ALLAN M. STRANG.
President of the Union.
GEORGE C. MCDONALD, ESQ.
WALTER MOLSON, ESQ.
ABNER KINGMAN, JR., ESQ.
W. C. COMMON.
Secretary of the Union.

### MACDONALD COLLEGE COMMITTEE.

DR. F. C. HARRISON, *Chairman.*

J. W. ROSS, ESQ.
PRINCIPAL PETERSON.
PROF. J. A. DALE.
W. VAUGHAN, ESQ.
PROF. WILLIAM LOCHHEAD.
DR. S. B. SINCLAIR.

### TEACHERS' TRAINING COMMITTEE OF MACDONALD COLLEGE.

(Meetings on the first Friday, of October, December, February, April and June).

PRINCIPAL PETERSON, *Chairman.*

DR. W. L. SHURTLEFF.
DR. G. W. PARMELEE.
PROF. J. A. DALE.
DR. F. C. HARRISON.
DR. S. B. SINCLAIR.
REV. DR. E. I. REXFORD.

### ATHLETICS COMMITTEE OF CORPORATION.

C. J. FLEET, Esq., *Chairman.*

DR. F. W. HARVEY, *Secretary.*
PROF. C. H. MCLEOD.
DR. H. T. BARNES.
DR. J. M. ELDER.
PERCY MOLSON, Esq., B.A.
W. VAUGHAN, Esq.

### COMMITTEE ON PUBLIC RELATIONS.

DR. J. B. PORTER.
DR. J. W. SCANE.
PROF. J. A. DALE.
DR. J. L. TODD.
J. H. BURLAND, Esq., B.A.Sc.
THE REGISTRAR.

# Officers of Instruction.

## FACULTY OF ARTS.

W. Peterson, M.A. (Edin. and Oxon.), LL.D. (St. Andrews), C.M.G.
*Principal and Professor of Classics.* 447 Sherbrooke Street, West.

Charles E. Moyse, B.A., (London), LL.D.
*Vice-Principal and Dean of the Faculty of Arts, and Molson Professor of English Language and Literature.*
324 Sherbrooke St. W.

Frank D. Adams, Ph.D. (Heidelberg), D.Sc., F.G.S.A., F.R.S.
*Logan Professor of Geology and Palaeontology.* 243 Mountain St.

C. W. Colby, M.A. and Ph.D. (Harvard).
*Kingsford Professor of History.* 560 Pine Ave.

J. Wallace Walker, Ph.D. (Leipsic), F.R.S.C.
*Macdonald Professor of Chemistry and joint Director of the Chemistry and Mining Building.*
768 St. Catherine Road, Outremont.

Hermann Walter, Ph.D. (Munich).
*Professor of Modern Languages.* 260 University St.

James Harkness, M.A. (Cantab.), F.R.S.C.
*Peter Redpath Professor of Pure Mathematics.*
23 Lorne Ave.

William Caldwell, D.Sc. (Edin.), formerly Shaw Fellow of the University of Edinburgh.
*Macdonald Professor of Moral Philosophy.* 51 Shuter St.

John MacNaughton, M.A. (Cantab.).
*Hiram Mills Professor of Classics.* 233 University St.

Paul T. Lafleur. M.A.
*Professor of Comparative Literature and Associate Professor of English.* 98 University St.

Howard T. Barnes, D.Sc., F.R.S.
*Macdonald Professor of Physics and Director of the Physics Building.* 239 Pine Avenue, W.

J. A. Dale, M.A. (Oxon.).
*Macdonald Professor of Education.* 235 University St.

H. C. Perrin, Mus. Doc. (Trinity Coll, Dublin University).
*Professor of Music and Director of the McGill Conservatorium of Music.* 159 University St.

S. B. Leacock, Ph.D. (Chicago).
*Professor of Political Economy.* 165 Côte des Neiges Road.

Harold A. Wilson, D.Sc., F.R.S., formerly Fellow of Trinity College, Cambridge.
*Macdonald Professor of Physics.*
6 Travancore Apartments, Cedar Ave.

Arthur Willey, D.Sc., F.R.S.
*Strathcona Professor of Zoology.*
The York Apartments, Mance St.

C. A. Brodie Brockwell, M.A.
*Professor of Hebrew and Semitic Languages.*

---

*Professor of Botany.*

LEIGH R. GREGOR, B.A., Ph.D. (Heidelberg).
*Associate Professor of Modern Languages.* 139 Bayle Street.
ETHEL HURLBATT, M.A., T.C.D. (Somerville College, Oxford).
*Warden of the Royal Victoria College and Resident Tutor in History* Royal Victoria College.
(*The above constitute the Faculty of Arts*).

OTHER OFFICERS OF INSTRUCTION.

NEVIL NORTON EVANS, M.A.Sc.
*Associate Professor of Chemistry.* 157 St. Famille Street.
A. S. EVE, D.Sc.
*Associate Professor of Mathematics.*
860 St. Catherine Road, Côte des Neiges.
DOUGLAS MCINTOSH, D.Sc.
*Associate Professor of Chemistry.* McGill College.
S. B. SLACK, M.A. (Oxon.).
*Associate Professor of Classics, and Lecturer on Comparative Philology.* McGill College.
J. W. A. HICKSON, M.A., Ph.D. (Halle).
*Associate Professor of Logic and Metaphysics.* 272 Mountain St.
J. C. SIMPSON, B.Sc.
*Associate Professor of Histology and Embryology.*
20 Oxenden Ave.
HERBERT J. ROSE, B.A. (Oxon.).
*Associate Professor of Classics.*
CARRIE M. DERICK, M.A.
*Assistant Professor of Botany.* 85 Crescent Street.
J. L. MORIN, M.A.
*Assistant Professor of Modern Languages.* 95 Durocher Street.
CHARLES EDMUND FRYER, M.A., Ph.D. (Harvard).
*Assistant Professor of History.* 20 Oxenden Ave.
T. RIDLER DAVIES, B.A. (Cantab.).
*Assistant Professor of Mathematics.* 69 University Street.
J. C. HEMMEON, M.A., Ph.D. (Harvard).
*Assistant Professor of Economics.* McGill College.
J AUSTEN BANCROFT, Ph.D.
*Assistant Professor of Geology.* McGill College.
F. M. G. JOHNSON, M.Sc., Ph.D. (Breslau), F.I.C.
*Assistant Professor of Organic and Analytical Chemistry.*
E. T. LAMBERT, B.A. (Lond.). 286 Peel St.
*Lecturer in Modern Languages.* 456 Mountain Ave., Westmount.
J. STAFFORD, B.A. (Toronto), M.A., Ph.D. (Leipsic).
*Lecturer in Zoology.* McGill College.
SUSAN E. CAMERON, M.A.
*Vice-Warden of the Royal Victoria College, Lecturer and Resident Tutor in English.* Royal Victoria College.
CLARA LICHTENSTEIN.
(Diplomée of the Royal Academy of Music, Buda-Pesth.)
*Lecturer and Resident Instructor in Music.*
Royal Victoria College.
MLLE. G. BIANQUIS, Agrégée de l'Université de France, Docteur de l'Université de Paris.
*Lecturer in French (Royal Victoria College).*
Royal Victoria College.

G. W. LATHAM, B.A.
*Lecturer in English.* 1359 St. Urbain Street.
RICHARD P. D. GRAHAM, B.A. (Oxon.).
*Lecturer in Mineralogy.* McGill College.
LEMUEL ROBERTSON, M.A.
*Lecturer in Classics.*
F. H. DAY, M.Sc. (Boston).
*Lecturer in Physics.* 65 Shuter St.
N. R. GILLIS, M.Sc.
*Lecturer in Physics.* McGill College.
WILLIAM D. TAIT, Ph.D. (Harvard).
*Lecturer in Experimental Psychology.* Columbia Ave., Westmount.
ELIZABETH A. HAMMOND IRWIN, M.A.
*Lecturer and Tutor in Classics (Royal Victoria College).* 210 Villeneuve Street, W.
CYRUS MCMILLAN, Ph.D. (Harvard).
*Lecturer in English.* The Marlborough, Milton St.
JOHN STANSFIELD, B.A. (Cambridge), F.G.S.
*Lecturer in Geology.*
R. KENNETH NAYLOR, B.A.
*Sessional Lecturer and Tutor in Classics.* McGill College.
ALFRED E. BARLOW, D.Sc.
*Sessional Lecturer in Geology.* McGill College.
REV. NATHAN GORDON, M.A., B.D.
*Sessional Lecturer in Rabbinical and Mediæval Jewish Language and Literature.* 68 Stanley St.
REV. A. R. GORDON, D. Litt.
*Sessional Lecturer in Hebrew.* Presbyterian College.
REV. G. ABBOTT-SMITH, M.A., D.D.
*Sessional Lecturer in Hellenistic Jewish Literature.* Diocesan College.
L. V. KING, B.A. (Cantab.).
*Sessional Lecturer in Physics.*
ANNA SCHAFHEITLIN, B.A.,
*Sessional Lecturer and Tutor in German.*

---

*Demonstrator in Chemistry.*
V. I. HARDING, M.Sc.
*Demonstrator in Chemistry.*
V. K. KRIEBLE, M.Sc
*Demonstrator in Chemistry*
H. W. MATHESON, B.Sc.
*Demonstrator in Chemistry..*
J. NICOLLS, B.Sc.
*Demonstrator in Chemistry.*
J. C. POMEROY.
*Demonstrator in Physics.*
NATHANIAL E. WHEELER, B.Sc.
*Demonstrator in Physics.*
H. E. REILLEY, B.A.
*Assistant Demonstrator in Physics.*
J. B. MABON, B.A.
*Sessional Lecturer in Mathematics and Assistant Demonstrator in Physics.*

J. W. HAYWARD.
*Assistant Demonstrator in Physics.*
JOHN P. STEPHEN.
*Instructor in Elocution.* 18 McGill College Ave.

With the foregoing are associated:

F. P. WALTON, B.A. (Oxon.), LL.B. (Edin.), LL.D. (Aberdeen).
*Gale Professor of Roman Law and Lecturer on Constitutional Law.* 552 Pine Avenue W.
C. H. McLEOD, Ma.E., F.R.S.C.
*Superintendent of Meteorological Observatory.* McGill College.

GENERAL INSTRUCTORS.

LIEUT.-COL. T. EIRCHALL WOOD.
*Lecturer in Military History and Strategy, Military Tactics, and Military Law and Administration.*
Royal Military College, Kingston.
CAPTAIN TYRELL.
*Lecturer in Military Engineering and Topography.*
Headquarters Quebec Command, Renouf Building, Montreal.
F. W. HARVEY, B.A., M.D.
*Medical Director of Physical Education.* 58 Crescent Street.
W. J. JACOMB.
*Instructor in Gymnastics.* 151 Mansfield Street.
MISS ETHEL M. CARTWRIGHT.
*Physical Director, Royal Victoria College.*
Royal Victoria College.

---

## FACULTY OF APPLIED SCIENCE.

THE PRINCIPAL.
FRANK D. ADAMS, Ph.D. (Heidelberg), D.Sc., F.G.S.A., F.R.S.
*Dean of the Faculty and Logan Professor of Geology and Palæontology.*
243 Mountain Street.
C. H. McLEOD, Ma.E., F.R.S.C.
*Vice-Dean of the Faculty, Professor of Surveying and Geodesy, and Lecturer on Descriptive Geometry, Supt. of Meteorological Observatory.* Observatory, McGill College.
J. BONSALL PORTER, Ph.D. (Columbia), D.Sc., hon., (Univ. Cape of Good Hope), M. Inst. C. E., F.G.S.A.
*Macdonald Professor of Mining Engineering.* 130 McTavish St.
J. WALLACE WALKER, Ph.D. (Leipsic), F.R.S.C.
*Macdonald Professor of Chemistry.*
768 St. Catherine Road, Outremont.
R. J. DURLEY, Ma.E., M. Inst. C.E., M. Am. Soc. M.E.
*Thomas Workman Professor of Mechanical Engineering and Lecturer on Thermodynamics.* 20 Summerhill Avenue.
ALFRED STANSFIELD, D.Sc. (London), A.R.S.M.
*Professor of Metallurgy.* 87 Durocher St.
HOWARD T. BARNES, D.Sc., F.R.S.
*Macdonald Professor of Physics and Director of the Physics Building.*
239 Pine Ave., W.

D. A. MURRAY, Ph.D. (Johns Hopkins)
*Professor of Applied Mathematics.* 297 University St.
H. M. MACKAY, B.A., B.A.Sc., M. Am. Soc. C.E.
*Professor of Civil Engineering.* 15 Lorne Ave.
H. O. KEAY, B.Sc. (Mass. Inst. of Tech.)
*Professor of Transportation.* 210 Milton St.
V. I. SMART, B.A. (Queen's).
*Professor of Railway Engineering* 34 Lincoln Ave.
LOUIS A. HERDT, E.E. (Elec. Inst. Montefiore, Belgium), D.Sc., M.A.I.E.E.
*Macdonald Professor of Electrical Engineering.* 82 Durocher St.
HAROLD A. WILSON, D.Sc., F.R.S.
*Macdonald Professor of Physics.*
The Travancore Apartments, Cedar Ave.
E. BROWN, M.Sc., M. Eng.
*Professor of Applied Mechanics and Hydraulics.* 152 St. Famille St.
THOMAS W. LUDLOW, B.Sc., M.A. (Columbia), Ass. Soc. of Beaux-Arts Architects.
*Assistant Professor of Architecture.* 27 Pine Avenue Apartments.

(*The above Members of the Staff constitute the Faculty of Applied Science*).

OTHER OFFICERS OF INSTRUCTION.

PERCY E. NOBBS, M.A. (Edin.), F.R.I.B.A., A.R.C.A., A.R.A.I.C.
*Professor of Architecture and Lecturer in Design.*
117 University St.
HENRY F. ARMSTRONG.
*Associate Professor of Freehand Drawing and Descriptive Geometry.* "Drayton House," Westmount Ave.
NEVIL NORTON EVANS, M.A.Sc.
*Associate Professor of Chemistry.* 157 St. Famille Street.
DOUGLAS MCINTOSH, A.M., (Cornell), D.Sc.
*Associate Professor of Chemistry.* McGill College.
A. S. EVE, M.A. (Cantab.), D.Sc.
*Associate Professor of Mathematics.*
860 St. Catherine Road, Côte des Neiges
JOHN W. BELL, M.Sc.
*Assistant Professor of Mining Engineering.*
1032 Dorchester Street West.
C. M. MCKERGOW, M.Sc.
*Assistant Professor of Mechanical Engineering.* McGill College.
J. BUICKE HARVEY, M.Sc
*Assistant Professor of Surveying and Geodesy, and Lecturer in Descriptive Geometry.* McGill College.
T. RIDLER DAVIES, B.A. (Cantab.).
*Assistant Professor of Mathematics.* 69 University St.
CLARENCE V. CHRISTIE, B.Sc.
*Assistant Professor of Electrical Engineering.*
455 Grosvenor Ave., Westmount.
J. AUSTEN BANCROFT, M.A., Ph.D.
*Assistant Professor of Geology.* McGill College.

A. R. Roberts, M.Sc.
*Assistant Professor of Mechanical Engineering.*
Alexander M. Gray, B.Sc.
*Assistant Professor of Electrical Engineering.*
Cyril Batho, B.Sc. (Manchester), B. Eng. and M.Sc. (Liverpool).
*Assistant Professor of Mechanics and Applied Mathematics.*
McGill College.

Richard P. D. Graham, B.A.
*Assistant Professor of Mineralogy.* McGill College.
H. M. Lamb, B.Sc.
*Assistant Professor of Civil Engineering.*
F. M. G. Johnson, M.Sc., Ph.D. (Breslau), F.I.C.
*Assistant Professor of Organic and Analytical Chemistry.*
286 Peel St.

John Blizard, B.Sc.
*Lecturer in Mechanical Engineering.* McGill College.
Herbert Martin.
*Lecturer on Freight Service.* Fairmount Court, 2106 Park Ave.
Marcel Beullac, Bachelier ès Science (France), B.Sc., A.M. Can. Soc. C.E.
*Special Lecturer on Structural Engineering.* 35 Mayor Street
A. A. Goodchild.
*Lecturer in Accounting and Statistics (Department of Railways).*
746 Park Avenue.

Geo. C. Wells.
*Lecturer on Passenger Service.*
339 Côte St. Antoine Road, Westmount.

Philip J. Turner, F.R.I.B.A.
*Lecturer in Building Construction, Specifications and Professional Practice.* 121 Board of Trade Building.
F. H. Day, M.Sc.
*Lecturer in Physics.*
65 Shuter St.

N. R. Gillis, M.Sc.
*Lecturer in Physics*
McGill College.

F. Baylis Brown, M.Sc.
*Lecturer in Engineering Economics.*
312 Prince Albert Ave., Westmount.

John Stansfield, B.A., (Cambridge), F.G.S.
*Lecturer in Geology.*
G. E. Bell, B.Sc.
*Lecturer in Architecture.*
G. L. Guillet, M.Sc.
*Lecturer in Mechanical Engineering.*
Alfred Barlow, D.Sc.
*Sessional Lecturer in Geology.*
Charles T. Sullivan, B.A.
*Lecturer in Mathematics.*
W. S. Lea, B.Sc., A.M. Can. Soc. C.E.
*Lecturer in Civil and Municipal Engineering.*
32 McGill College Ave.

S. W. Werner.
*Lecturer in Assaying*
McGill College.

J. N. Finlayson, M.Sc.
*Sessional Lecturer in Mathematics and Civil Engineering.*
McGill College.

HENRI HÉBERT.
*Instructor in Modelling.* 34 Labelle St.

---

*Demonstrator in Chemistry.* McGill College.
L. V. KING, B.A. (Cantab.)
*Sessional Lecturer in Physics.*

---

*Demonstrator in Civil Engineering.*
V. K. KRIEBLE, M.Sc.
*Demonstrator in Chemistry.* McGill College.
H. E. REILLEY, B.A.
*Assistant Demonstrator in Physics.* McGill College.
NATHANIEL ERNEST WHEELER, B.Sc.
*Demonstrator in Physics.* 65 Shuter St.
H. W. MATHESON, B.Sc.
*Demonstrator in Chemistry.* McGill College.
E. GODFREY BURR, B.Sc.
*Lecturer in Electrical Engineering.* 104 Union Ave.
J. H. TRIMINGHAM, B.Sc.
*Demonstrator in Electrical Engineering.*
J. NICOLLS, B.Sc.
*Demonstrator in Chemistry.*

---

*Demonstrator in Mining Engineering.* McGill College.

---

*Demonstrator in Mechanical Engineering.*
J. C. POMEROY,
*Demonstrator in Physics.*
GEORGE A. GILLIES, B.Sc.
*Dawson Fellow in Mining.* McGill College.
J. B. MABON, B.A
*Assistant Demonstrator in Physics.*
J. W. HAYWARD.
*Assistant Demonstrator in Physics.*
P. F. JOHNSON.
*Draughtsman in Mechanical Engineering.*
A. W. YOUNG.
*Instructor in Stenography.* McGill College.
H. F. MILLER.
*Instructor in Telegraphy.*
346 Marcil Ave., Westmount Plateau, Notre Dame de Grace.

With the foregoing are associated.

F. P. WALTON, B.A., LL.B., LL.D.
*Dean of Faculty of Law, Lecturer in Engineering Law.*
S. B. LEACOCK, Ph. D.
*Professor of Economics.*
J. C. HEMMEON, Ph.D.,
*Assistant Professor of Economics.*
G. W. LATHAM, B.A.
*Lecturer in English Language and Literature* 1359 St. Urbain St.

## FACULTY OF LAW.

(Macdonald Foundation.)

THE PRINCIPAL.

F. P. WALTON, B.A. (Oxon.), LL.B. (Edin.), LL.D. (Aberdeen).
*Dean of the Faculty of Law and Gale Professor of Roman Law.* 552 Pine Ave. W.

ARCHIBALD MCGOUN, M.A., B.C.L., K.C.
*Professor of Civil and Municipal Law.* 157 St. James Street.

W. DE M. MARLER, B.A., D.C.L.
*Professor of Civil Law.* 288 Peel Street.

HON. CHARLES J. DOHERTY, D.C.L.
*Professor of Civil, Commercial and International Law.* 282 Stanley St.

HON. A. G. CROSS, B.A., B.C.L., K.C.
*Professor of Commercial Law.* 369 Metcalfe Ave., Westmount.

HON. CHARLES PEERS DAVIDSON, M.A., D.C.L.
*Professor of Criminal Law.* The Linton Apartments, Sherbrooke Street.

R. C. SMITH, B.C.L., K.C.
*Professor of Commercial Law.* 4280 Dorchester St., Westmount.

AIMÉ GEOFFRION, B.C.L.
*Professor of Civil Law.* 50 Durocher Street.

GORDON W. MCDOUGALL, B.A., B.C.L., K.C.
*Professor of Commercial Law.* New York Life Building.

(*The above Professors constitute the Faculty of Law.*)

OTHER OFFICERS OF INSTRUCTION.

E. FABRE SURVEYER, B.A. (Laval), B.C.L.
*Lecturer in Pleading and Practice.* 161 St. Famille Street.

ARNOLD WAINWRIGHT, B.C.L.
*Lecturer of the Law of Evidence.* 156 Metcalfe St.

---

## FACULTY OF MEDICINE.

THE PRINCIPAL.

FRANCIS J. SHEPHERD, M.D., LL.D., (Edin. and Harvard), F.R.C.S.E.
*Dean of the Faculty and Professor of Anatomy and Dermatology.* 152 Mansfield Street.

GEORGE WILKINS, M.D.
*Professor of Medical Jurisprudence.* 538 Dorchester Street W.

---

*Professor of Botany.*

J. CHALMERS CAMERON, M.D.
*Professor of Midwifery and Diseases of Infants.* 605 Dorchester Street W.

ALEX. D. BLACKADER, B.A., M.D.
*Professor of Pharmacology and Therapeutics, and of Diseases of Children.* 236 Mountain Street.

R. F. RUTTAN, B.A. (Toronto), M.D., F.R.S.C.
*Professor of Organic and Biological Chemistry.* McGill College.

---

*Professor of Surgery and of Clinical Surgery.*
J. GEORGE ADAMI, M.A., M.D., (Cantab. and McGill), LL.D. (Univ. N.B.), F.R.S., FR.SS. (Edin. and Can.), late Fellow of Jesus College, Cambridge.
*Strathcona Professor of Pathology and Director of Pathological Museum.* 331 Peel Street.
H. S. BIRKETT, M.D.
*Professor of Oto-Laryngology.* 252 Mountain Street.
F. G. FINLEY, M.B. (London), M.D.
*Professor of Medicine and of Clinical Medicine.* 729 Dorchester Street W.
H. A. LAFLEUR, B.A., M.D.
*Professor of Medicine and of Clinical Medicine.* 215 Peel Street.
GEORGE E. ARMSTRONG, M.D.
*Professor of Surgery and of Clinical Surgery.* 320 Mountain Street.
T. A. STARKEY, M.B. (Lond.), D.P.H. (Lond.), M.R.S.C. (Eng.). Fell. Royal San. Inst.
*Strathcona Professor of Hygiene.* 271 University Street.
J. W. STIRLING, M.B.
*Professor of Ophthalmology.* 128 Stanley Street.
C. F. MARTIN, B.A., M.D.
*Professor of Medicine and of Clinical Medicine.* 33 Durocher Street.
ARTHUR WILLEY, D.Sc., F.R.S.
*Strathcona Professor of Zoology.* York Apartments, Mance St.
W. W. CHIPMAN, B.A., M.D. (Edin.), F.R.C.S. (Edin.).
*Professor of Gynæcology.* 285 Mountain Street.
N. H. ALCOCK, B.A., M.D.
*Joseph Morley Drake Professor of Physiology.* McGill College.

(*The above Professors constitute the Faculty of Medicine.*)

## OTHER OFFICERS OF INSTRUCTION.

T. J. W. BURGESS, M.D., F.R.S.C., Medical Superintendent, Protestant Hospital for Insane.
*Professor of Mental Diseases.* Drawer 2562, Montreal.
ANDREW MACPHAIL, B.A., M.D.
*Professor of the History of Medicine.* 216 Peel Street.
JOHN L. TODD, B.A., M.D., M.R.C.S. (Eng.)., D.Sc. (Hon., Liverpool).
*Associate Professor of Parasitology.* 261 Peel St.
J. C. SIMPSON, B.Sc.
*Associate Professor of Histology and Embryology.* 20 Oxenden Ave.
JOHN M. ELDER, B.A., M.D.,
*Assistant Professor of Surgery and Lecturer in Clinical Surgery.* 4201 Sherbrooke Street, Westmount.

ALBERT G. NICHOLLS, M.A., M.D., D.Sc., F.R.S.C.
*Assistant Professor of Pathology and Lecturer in Medicine.* 972 St. Catherine St. W.

A. E. GARROW, M.D.
*Assistant Professor of Surgery and Clinical Surgery.* 289 Mountain Street.

W. F. HAMILTON, M.D.
*Assistant Professor of Clinical Medicine.* 287 Mountain St.

J. ALEX. HUTCHISON, M.D.
*Assistant Professor of Surgery and Clinical Surgery.* 354 Mackay Street.

D. D. MACTAGGART, B.A.Sc., M.D.
*Assistant Professor of Medical Jurisprudence.* 221 Sherbrooke Street West.

J. W. SCANE, M.D.
*Assistant Professor of Pharmacology.* McGill College.

F. A. L. LOCKHART, M.B. (Edin.).
*Assistant Professor of Gynæcology.* 38 Bishop Street.

G. GORDON CAMPBELL, B.Sc., M.D.
*Lecturer in Medicine and Clinical Medicine and on Diseases of Infants and Children and Dermatology.* 117 Metcalfe St.

D. J. EVANS, M.D.
*Lecturer in Obstetrics and Diseases of Children.* 603 Dorchester Street West.

S. RIDLEY MACKENZIE, M.D.
*Lecturer in Clinical Medicine.* 219 Peel Street.

JOHN MCCRAE, M.D. (Toronto), M.R.C.P. (Lond.).
*Lecturer in Pathology and Clinical Medicine.* 160 Metcalfe Street.

A. A. ROBERTSON, B.A., M.D.
*Lecturer in Physiology.* 136 Mansfield Street.

W. G. M. BYERS, M.D.
*Lecturer in Ophthalmology.* 346 Mountain Street.

A. ARTHMAN BRUÈRE, M.D. (Edin.).
*Lecturer in Clinical Medicine.* 713 Mance Street, Montreal.

WALTER M. FISK, M.D.
*Lecturer in Histology and Demonstrator in Diseases of Children.* 98 Park Avenue.

J. A. HENDERSON, M.D.
*Lecturer in Anatomy.* 34 Park Avenue.

H. B. YATES, B.A. (Cantab.), M.D.
*Lecturer in Bacteriology.* 257 Peel Street.

D. A. SHIRRES, M.D.
*Lecturer in Clinical Neurology.* The Sherbrooke.

KENNETH CAMERON, B.A., M.D.
*Lecturer in Clinical Surgery.* The Linton Apartments, 731 Sherbrooke St. W.

G. H. MATHEWSON, B.A., M.D.
*Lecturer in Ophthalmology.* 205 Birks' Building, Phillips Square.

E. W. ARCHIBALD, B.A., M.D.
*Lecturer in Clinical Surgery.* 160 Metcalfe Street.

W. L. BARLOW, B.A., M.D.
*Lecturer in Clinical Surgery.* 4458 Sherbrooke Street, Westmount.

H. M. Little, B.A., M.D.
*Lecturer in Obstetrics and Diseases of Infants and Demonstrator in Gynæcology.*

Maude E. Abbott B.A., M.D. (Bishop's), M.D., Hon. (McGill). L.R.C.P. & S. (Edin.).
*Curator of the Medical Museum.* McGill College.

J. J. Ross, B.A., M.D.
*Lecturer in Anatomy.* 414 Bourgeois Street.

A. E. Orr, M.D.
*Lecturer in Anatomy.* 540 Dorchester Street W.

Oscar C. Grunner, M.D.
*Lecturer in Pathology.*

W. B. Howell, M.D.
*Lecturer in Physiology.* 47 St. Mark St.

T. P. Shaw, M.D.
*Lecturer in Physiology.*

L. J. Rhea, M.D.
*Lecturer in Pathology.*

H. D. Hamilton, M.A., (Bishop's), M.D., L.R.C.P. & S. (Edin.), L.F.P. & S. (Glasgow).
*Demonstrator in Laryngology and Rhinology.*
Birks Building, Phillips Square.

A. H. Gordon, M.D.
*Demonstrator in Clinical Medicine.* 125 Hutchison Street.

F. B. Jones, M.D., D.P.H.
*Demonstrator in Hygiene.* 98 Sherbrooke Street W.

H. B. Cushing, B.A., M.D.
*Demonstrator in Histology and Clinical Medicine.*
231 Stanley Street.

J. L. D. Mason, B.A., M.D.
*Demonstrator in Pharmacology and Therapeutics.*
24 Park Ave.

C. B. Keenan, M.D.
*Demonstrator in Clinical Surgery.* 376 Mountain Street.

J. R. Goodall, M.D.
*Demonstrator in Gynæcology.*

A. T. Bazin, M.D.
*Demonstrator in Clinical Surgery.*
4064 Dorchester St., Westmount.

H. R. D. Gray, B.A., M.D.
*Demonstrator in Obstetrics.* 59 Beaver Hall Hill.

C. F. Wylde, M.D.
*Demonstrator in Clinical Medicine and Clinical Microscopy.*
101 Crescent Street.

David Patrick, M.D.
*Demonstrator in Gynæcology.*
4174 St. Catherine Street, Westmount.

C. A. Peters, M.D.
*Demonstrator in Clinical Medicine.*
370 Mountain St.

F. M. Fry, B.A., M.D.
*Demonstrator in Clinical Medicine and Diseases of Infants and Children.* 577 Dorchester Street W.

R. P. Campbell, B.A., M.D.
*Demonstrator in Pathology and Assistant Demonstrator in Clinical Surgery.* 249 Mountain Street.

Charles K. P. Henry, M.D.
*Demonstrator in Anatomy and Assistant Demonstrator in Clinical Surgery.* 4549 Sherbrooke St., Westmount.

Colin K. Russel, B.A., M.D.
*Demonstrator in Clinical Medicine.* 406 Mackay Street.

W. H. Jamieson, M.D.
*Demonstrator in Oto-Laryngology.* 209 Peel Street.

A. R. Pennoyer, M.D.
*Demonstrator in Clinical Surgery.* 418 Mackay Street

W. P. Burnett, M.D.
*Demonstrator in Dermatology.*

A. Mackenzie Forbes, M.D.
*Demonstrator in Orthopædic Surgery.* 485 Guy Street.

F. T. Tooke, B.A., M.D.
*Demonstrator in Ophthalmology.* 368 Mountain Street.

S. Hanford McKee, B.A., M.D.
*Demonstrator in Bacteriology and Ophthalmology.* 158 Crescent Street.

Robert H. Craig, M.D.
*Demonstrator in Rhinology and Laryngology.* 186 Peel Street.

J. C. Meakins, M.D.
*Demonstrator in Clinical Medicine and in Bacteriology.*

W. W. Francis, A.B., and M.D. (Johns Hopkins).
*Demonstrator in Pathology and Assistant Demonstrator in Clinical Medicine.* 125 Mansfield Street.

H. W. Matheson, M.D.
*Demonstrator in the Clinical Laboratory.*

J. W. Duncan, M.D.
*Demonstrator in Obstetrics.*. "The New Sherbrooke," Sherbrooke St.

W. G. Turner, M.D.
*Demonstrator in Orthopædic Surgery.* 208 Peel Street.

W. H. Donnelly, M.D.
*Demonstrator in Bacteriology.* 543 St. Antoine Street.

A. L. C. Gilday, B.A., M.D.
*Demonstrator in Physiology.*

H. C. Burgess, M.D.
*Demonstrator in Obstetrics.*

J. Appleton Nutter, B.A., M.D.
*Assistant Demonstrator in Anatomy.* 65 Drummond Street.

J. G. Browne, B.A., M.D.
*Assistant Demonstrator in Clinical Medicine.* 1171 St. Denis St.

E. M. von Eberts, M.D.
*Assistant Demonstrator in Clinical Surgery.* 107 Metcalfe Street.

W. H. P. Hill, M.D.
*Assistant Demonstrator in Clinical Surgery.* 409 Mackay St.

A. G. McAuley, M.D.
*Assistant Demonstrator in Clinical Medicine.* 475 St. Antoine Street.

D. W. McKechnie, M.D.
*Assistant Demonstrator in Clinical Medicine.* 737 Park Avenue.
J. W. Hutchinson, M.D.
*Assistant Demonstrator in Anatomy and Clinical Surgery.*
F. E. McKenty, M.D., F.R.C.S. (London).
*Assistant Demonstrator in Anatomy and Clinical Surgery.*
93 Union Ave.
H. S. Muckleston, M.A., M.D.
*Assistant Demonstrator in Oto-Laryngology.* 116 Uuiversity St.
Hamilton White, B.A., M.D.
*Assistant Demonstrator in Oto-Laryngology.*
W. H. Smyth, M.D.
*Assistant Demonstrator in Anatomy.*
W. J. Paterson, M.D.
*Assistant Demonstrator in Clinical Surgery.*
C. F. Moffat, M.D.
*Assistant Demonstrator in Medicine.*

### Dental Department.

Fred. G. Henry, D.D.S.
*Professor of Dental Pathology, Dental Materia-Medica and Therapeutics.* Corner Guy and St. Catherine Streets.
D. James Berwick, D.D.S.
*Professor of Operative Dentistry, and Chairman of the Dental Executive.* 485 St Catherine Street W.
James B. Morrison, D.D.S.
*Professor of Orthodontia and Crown and Bridge Work.*
14 Phillips Square.
George S. Cameron, L.D.S.
*Professor of Prosthetic Dentistry.*
Birks' Building, Phillips Square.
F. H. A. Baxter, D.D.S.
*Lecturer in Prosthetic Technique, Dental Anatomy, Dental Histology and Dental Surgery.* Lindsay Building.
W. Watson, B.A., D.D.S.
*Lecturer in Operative Technique and Operative Dentistry.* 54 Park Ave.
J. S. Dohan, D.D.S.
*Demonstrator in Crown and Bridge Work.* 127 Stanley St.
J. S. Ibbotson, D.D.S.
*Director of Dental Clinic.* 119 Crescent St.
Leo Doran, D.D.S.
*Superintendent of Dental Clinic.*

## FACULTY OF AGRICULTURE.

### (Macdonald College.)

The Principal.

F. C. Harrison, B.S.A. (Toronto), D.Sc., F.R.S.C.
*Principal and Professor of Bacteriology.*
Macdonald College, Que

WILLIAM LOCHHEAD, B.A., M.Sc.
*Professor of Biology.* Macdonald College, Que.

JOHN BRITTAIN, D.Sc.
*Professor of Nature Study.*

CARLETON J. LYNDE, Ph.D.
*Professor of Physics.* "

LEONARD S. KLINCK, M.S.A.
*Professor of Cereal Husbandry.*

W. SAXBY BLAIR.
*Professor of Horticulture.* "

J. F. SNELL, Ph.D.
*Professor of Chemistry.* "

H. BARTON, B.S.A.,
*Professor of Animal Husbandry.*

The above Professors constitute the Faculty of Agriculture.

OTHER OFFICERS OF INSTRUCTION.

FRED. C. ELFORD.
*Manager and Instructor in Poultry Department.*

J. M. SWAINE, M.S.A.
*Lecturer in Entomology and Zoology.*

DOUGLAS MACFARLANE, Ph.D.
*Lecturer in English and History.*

JOHN FIXTER.
*Farm Superintendent and Instructor in Farm Management.*

GEORGE E. EMBERLEY.
*Instructor in Manual Training.*

R. B. COOLEY, B.S.A.
*Instructor in Animal Husbandry.*

JOHN F. MONROE, B.S.A.
*Lecturer in Horticulture.*

H. S. HAMMOND, B.S.A., F.C.S.
*Lecturer in Chemistry.*

J. VANDERLECK, Ch.E.
*Assistant in Bacteriology.*

G. H. CUTLER, B.S.A.
*Assistant in Cereal Husbandry.*

H. DASEN.
*Assistant in Bacteriology.*

FREDERICK W. BATES, B.A., M.Sc.
*Assistant in Physics.*

MISS JANET MACNAUGHTON, N.D.D. (Great Britain).
*Instructor in Home Dairying..*

MISS G. BAGNALL, N.D.D.
*Assistant Instructor in Home Dairying.*

CHARLES B. POWTER.
*Instructor in Physical Culture.*

MISS Z. WETMORE.
*Assistant in Manual Training.*

*School for Teachers.*

S. B. SINCLAIR, M.A., Ph.D.
*Head of the School for Teachers and Professor of the History and Principles of Education.* Macdonald College, Que.
ABNER W. KNEELAND, M.A., B.C.I.
*Professor of English.*
H. F. ARMSTRONG.
*Associate Professor of Drawing.*
MISS LILLIAN B. ROBINS, B.A.
*Lecturer in Mathematics and in Classics.*
MLLE. H. BIÉLER.
*Lecturer in French.*
R. W. EDMISON, B.A.
*Head Master of Practice School.*
WILLIAM H. SMITH.
*Instructor in Vocal Music.*
MISS MARJORIE TORRANCE.
*Instructor in Physical Culture.*
MISS MARGUERITA MACNAUGHTON, B.A.
*Teacher in Practice School.*
MISS JANET T. GREIG.
*Teacher in Practice School.*

MISS FRIDA KRUSE.
*Teacher in Practice School.*

*School of Household Science.*

MISS KATHERINE A. FISHER
*Acting Head of the School of Household Science and Assistant Professor of Household Science.*
MISS MABEL LOVERIDGE.
*Instructor in Sewing, Dressmaking and Millinery.*
MRS. T. T. RUTTER.
*Instructor in Household Science.*
MISS ANITA E. HILL.
*Instructor in Household Science.*
MISS BESSIE J. RUSSELL.
*Assistant in Household Science.*

---

# Professors Emeriti.

(*Retaining their Rank and Titles, but retired from work.*)

ALEX. JOHNSON, M.A., LL.D., D.C.L., F.R.S.C.
*Vice-Principal Emeritus, and Emeritus Professor in the Faculty of Arts.* 5 Prince of Wales Terrace.
HON. MATTHEW HUTCHINSON, D.C.L.
*Emeritus Professor in the Faculty of Law.*
Sherbrooke, Que.

HON. J. EMERY ROBIDOUX, D.C.L., Officier de l'Instruction Publique, Chevalier de la Légion d'Honneur.
*Emeritus Professor in the Faculty of Law.* 151 University St.

GILBERT P. GIRDWOOD, M.D.C.M., M.R.S.C. (England), F.I.C., F.C.S., F.R.S.C.
*Emeritus Professor in the Faculty of Medicine.*
111 University Street.

J. CLARK MURRAY, LL.D., F.R.S.C.
*Emeritus Professor in the Faculty of Arts.* 20 McTavish Street.

DUNCAN McEACHRAN, D.V.S., F.R.C.V.S., LL.D.
*Emeritus Dean and Professor in the Faculty of Comparative Medicine and Veterinary Science.* 176 University Street.

THOMAS G. RODDICK, M.D., LL.D. (Edin.).
*Emeritus Dean and Professor in the Faculty of Medicine.*
80 Union Ave.

T. WESLEY MILLS, M.A., M.D., F.R.S.C.
*Emeritus Professor of Physiology.*

WILLIAM GARDNER, M.D.
*Emeritus Professor of Gynæcology.* 457 Sherbrooke St. W.

# ACADEMICAL YEAR, 1911-1912.

## SEPTEMBER, 1911.



| | | |
|---|---|---|
| 1 | Friday | |
| 2 | Saturday | |
| **3** | **SUNDAY** | |
| 4 | Monday | Summer School in Surveying opens. Library closed. |
| 5 | Tuesday | |
| 6 | Wednesday | |
| 7 | Thursday | Lectures begin for Second and Third Year Students in Law. |
| 8 | Friday | |
| 9 | Saturday | |
| **10** | **SUNDAY** | |
| 11 | Monday | |
| 12 | Tuesday | |
| 13 | Wednesday | |
| 14 | Thursday | Finance Committee. |
| 15 | Friday | |
| 16 | Saturday | |
| **17** | **SUNDAY** | |
| 18 | Monday | |
| 19 | Tuesday | New Medical Buildings opened, 1901. |
| 20 | Wednesday | |
| 21 | Thursday | Matriculation, Exhibition, Scholarship and Supplemental Examinations in Arts. |
| 22 | Friday | |
| 23 | Saturday | |
| **24** | **SUNDAY** | |
| 25 | Monday | Meeting of Governors. Register opens for Students in Medicine. |
| 26 | Tuesday | |
| 27 | Wednesday | |
| 28 | Thursday | |
| 29 | Friday | Special Registration day for new Students. |
| 30 | Saturday | Special Registration day for students previously enrolled. |

## OCTOBER, 1911.

| | | |
|---|---|---|
| **1** | **SUNDAY** | |
| 2 | Monday | Lectures begin in all Faculties. Conservatorium of Music opens. Meeting of Faculty of Applied Science. |
| 3 | Tuesday | |
| 4 | Wednesday | |
| 5 | Thursday | Physics Building Committee. |
| 6 | Friday | Founder's Birthday. University Lecture. Meeting of Faculty of Arts. Meeting of Teachers' Training Committee. |
| 7 | Saturday | Meeting of Faculty of Medicine. |
| **8** | **SUNDAY** | |
| 9 | Monday | Museum Committee. Library Committee. |
| 10 | Tuesday | William Molson Hall opened, 1862. Summer Essays in Applied Science to be sent in. |
| 11 | Wednesday | Regular Meeting of Corporation. |
| 12 | Thursday | Finance Committee. |
| 13 | Friday | |
| 14 | Saturday | Conservatorium of Music opened, 1904. Interclass Sports. |
| **15** | **SUNDAY** | |
| 16 | Monday | Eng.'g Building Committee. Chemistry and Mining Building Committee. |
| 17 | Tuesday | |
| 18 | Wednesday | |
| 19 | Thursday | |
| 20 | Friday | Meeting of Faculty of Arts. University Sports. |
| 21 | Saturday | |
| **22** | **SUNDAY** | |
| 23 | Monday | Meeting of Governors. |
| 24 | Tuesday | |
| 25 | Wednesday | |
| 26 | Thursday | |
| 27 | Friday | |
| 28 | Saturday | |
| **29** | **SUNDAY** | |
| 30 | Monday | |
| 31 | Tuesday | New Library opened, 1893. |

NOTE.—The University Library is closed on Thanksgiving Day.

| | | |
|---|---|---|
| 1 | Wednesday | |
| 2 | Thursday | |
| 3 | Friday | |
| 4 | Saturday | Meeting of Faculty of Medicine. |
| **5** | **SUNDAY** | |
| 6 | Monday | Meeting of Faculty of Applied Science. |
| 7 | Tuesday | |
| 8 | Wednesday | |
| 9 | Thursday | Finance Committee. |
| 10 | Friday | Meeting of Faculty of Arts. |
| 11 | Saturday | |
| **12** | **SUNDAY** | |
| 13 | Monday | |
| 14 | Tuesday | |
| 15 | Wednesday | |
| 16 | Thursday | |
| 17 | Friday | |
| 18 | Saturday | |
| **19** | **SUNDAY** | |
| 20 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. |
| 21 | Tuesday | |
| 22 | Wednesday | |
| 23 | Thursday | |
| 24 | Friday | |
| 25 | Saturday | |
| **26** | **SUNDAY** | |
| 27 | Monday | Meeting of Governors. |
| 28 | Tuesday | |
| 29 | Wednesday | |
| 30 | Thursday | |

## DECEMBER, 1911.

| | | |
|---|---|---|
| 1 | Friday | Meeting of Faculty of Arts. Meeting of Teachers' Training Committee |
| 2 | Saturday | Meeting of Faculty of Medicine. |
| **3** | **SUNDAY** | |
| 4 | Monday | Meeting of Faculty of Applied Science. |
| 5 | Tuesday | |
| 6 | Wednesday | Meeting of Academic Board. |
| 7 | Thursday | Physics Building Committee. |
| 8 | Friday | |
| 9 | Saturday | |
| **10** | **SUNDAY** | |
| 11 | Monday | Museum Committee. Library Committee. |
| 12 | Tuesday | |
| 13 | Wednesday | Regular Meeting of Corporation. |
| 14 | Thursday | Finance Committee. Lectures for first term in Arts end. |
| 15 | Friday | Lectures for first term in Law end. Meeting of Faculty of Arts. |
| 16 | Saturday | Christmas Examinations in Arts begin. |
| **17** | **SUNDAY** | |
| 18 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. |
| 19 | Tuesday | |
| 20 | Wednesday | Chemistry and Mining Building opened, 1898 |
| 21 | Thursday | Christmas vacation begins. |
| 22 | Friday | |
| 23 | Saturday | |
| **24** | **SUNDAY** | |
| 25 | Monday | Christmas Day. Library closed. |
| 26 | Tuesday | |
| 27 | Wednesday | |
| 28 | Thursday | |
| 29 | Friday | |
| 30 | Saturday | |
| **31** | **SUNDAY** | |

| | | |
|---|---|---|
| 1 | Monday | Library closed. |
| 2 | Tuesday | |
| 3 | Wednesday | |
| 4 | Thursday | Second Term opens in Faculties of Arts, Medicine and Law. Work resumed in Applied Scienee. |
| 5 | Friday | |
| 6 | Saturday | Meeting of Faculty of Medicine. |
| **7** | **SUNDAY** | |
| 8 | Monday | |
| 9 | Tuesday | |
| 10 | Wednesday | |
| 11 | Thursday | Finance Committee. |
| 12 | Friday | Meeting of Faculty of Arts. |
| 13 | Saturday | Lectures for first term in Applied Science end. |
| **14** | **SUNDAY** | |
| 15 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. |
| 16 | Tuesday | First Term Examinations in Applied Science begin. |
| 17 | Wednesday | |
| 18 | Thursday | Second Term opens in Applied Science. |
| 19 | Friday | |
| 20 | Saturday | |
| **21** | **SUNDAY** | |
| 22 | Monday | Meeting of Governors. |
| 23 | Tuesday | |
| 24 | Wednesday | |
| 25 | Thursday | |
| 26 | Friday | |
| 27 | Saturday | |
| **28** | **SUNDAY** | |
| 29 | Monday | |
| 30 | Tuesday | |
| 31 | Wednesday | |

## FEBRUARY, 1912.

| | | |
|---|---|---|
| 1 | Thursday | |
| 2 | Friday | Meeting of Faculty of Arts. Meeting of Teachers' Training Committee. |
| 3 | Saturday | Meeting of Faculty of Medicine. |
| **4** | **SUNDAY** | |
| 5 | Monday | Meeting of Faculty of Applied Science. |
| 6 | Tuesday | |
| 7 | Wednesday | |
| 8 | Thursday | Physics Building Committee. Finance Committee. |
| 9 | Friday | |
| 10 | Saturday | |
| **11** | **SUNDAY** | |
| 12 | Monday | Museum Committee. Library Committee. |
| 13 | Tuesday | |
| 14 | Wednesday | Regular Meeting of Corporation. |
| 15 | Thursday | |
| 16 | Friday | Meeting of Faculty of Arts. |
| 17 | Saturday | |
| **18** | **SUNDAY** | |
| 19 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. |
| 20 | Tuesday | |
| 21 | Wednesday | Ash Wednesday. No lectures. |
| 22 | Thursday | |
| 23 | Friday | |
| 24 | Saturday | Physics and Engineering Buildings opened, 1893. |
| **25** | **SUNDAY** | |
| 26 | Monday | Meeting of Governors. |
| 27 | Tuesday | |
| 28 | Wednesday | |
| 29 | Thursday | |

| | | |
|---|---|---|
| 1 | Friday | Meeting of Faculty of Arts. |
| 2 | Saturday | Meeting of Faculty of Medicine. |
| **3** | **SUNDAY** | |
| 4 | Monday | Meeting of Faculty of Applied Science. |
| 5 | Tuesday | |
| 6 | Wednesday | Meeting of Academic Board. |
| 7 | Thursday | |
| 8 | Friday | |
| 9 | Saturday | |
| **10** | **SUNDAY** | |
| 11 | Monday | |
| 12 | Tuesday | |
| 13 | Wednesday | |
| 14 | Thursday | Finance Committee. |
| 15 | Friday | Meeting of Faculty of Arts. |
| 16 | Saturday | |
| **17** | **SUNDAY** | |
| 18 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. |
| 19 | Tuesday | |
| 20 | Wednesday | |
| 21 | Thursday | |
| 22 | Friday | |
| 23 | Saturday | |
| **24** | **SUNDAY** | |
| 25 | Monday | Meeting of Governors. |
| 26 | Tuesday | |
| 27 | Wednesday | |
| 28 | Thursday | |
| 29 | Friday | |
| 30 | Saturday | |
| **31** | **SUNDAY** | |

## APRIL, 1912.

| | | |
|---|---|---|
| 1 | Monday | Meeting of Faculty of Applied Science. |
| 2 | Tuesday | |
| 3 | Wednesday | |
| 4 | Thursday | Physics Building Committee. |
| 5 | Friday | Macdonald Engineering Building burned, 1907. Good Friday. No lectures. Library closed. |
| 6 | Saturday | Meeting of Faculty of Medicine. |
| **7** | **SUNDAY** | Easter Sunday. |
| 8 | Monday | Museum Committee. Library Committee. |
| 9 | Tuesday | |
| 10 | Wednesday | Regular Meeting of Corporation. |
| 11 | Thursday | Finance Committee. |
| 12 | Friday | Meeting of Teachers' Training Committee. Meeting of Faculty of Arts. |
| 13 | Saturday | Last day of Lectures in Arts, Law and Applied Science. |
| **14** | **SUNDAY** | |
| 15 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. Last day for receiving theses for higher degrees. |
| 16 | Tuesday | Medical Building burned, 1907. Sessional Examinations begin in Arts, Applied Science and Law. |
| 17 | Wednesday | |
| 18 | Thursday | |
| 19 | Friday | |
| 20 | Saturday | |
| **21** | **SUNDAY** | |
| 22 | Monday | Meeting of Governors. |
| 23 | Tuesday | |
| 24 | Wednesday | |
| 25 | Thursday | |
| 26 | Friday | Meeting of Faculty of Arts. |
| 27 | Saturday | |
| **28** | **SUNDAY** | |
| 29 | Monday | |
| 30 | Tuesday | |

| | | |
|---|---|---|
| 1 | Wednesday | |
| 2 | Thursday | |
| 3 | Friday | |
| 4 | Saturday | Meeting of Faculty of Medicine. |
| **5** | **SUNDAY** | |
| 6 | Monday | Meeting of Faculty of Applied Science. |
| 7 | Tuesday | |
| 8 | Wednesday | |
| 9 | Thursday | Finance Committee. |
| 10 | Friday | Convocation for Conferring Degrees in Arts, Law and Applied Science. |
| 11 | Saturday | |
| **12** | **SUNDAY** | |
| 13 | Monday | |
| 14 | Tuesday | |
| 15 | Wednesday | |
| 16 | Thursday | |
| 17 | Friday | |
| 18 | Saturday | |
| **19** | **SUNDAY** | |
| 20 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. |
| 21 | Tuesday | |
| 22 | Wednesday | |
| 23 | Thursday | |
| 24 | Friday | Victoria Day. Library closed. |
| 25 | Saturday | |
| **26** | **SUNDAY** | |
| 27 | Monday | Meeting of Governors. |
| 28 | Tuesday | |
| 29 | Wednesday | |
| 30 | Thursday | |
| 31 | Friday | |

## JUNE, 1912.

| | | |
|---|---|---|
| 1 | Saturday | Meeting of Faculty of Medicine. |
| **2** | **SUNDAY** | |
| 3 | Monday | Graduate course in Medicine begins. |
| 4 | Tuesday | |
| 5 | Wednesday | |
| 6 | Thursday | Physics Building Committee. |
| 7 | Friday | Meeting of Teachers' Training Committee. |
| 8 | Saturday | |
| **9** | **SUNDAY** | |
| 10 | Monday | Museum Committee. Library Committee. |
| 11 | Tuesday | |
| 12 | Wednesday | Regular Meeting of Corporation. |
| 13 | Thursday | Finance Committee. |
| 14 | Friday | |
| 15 | Saturday | |
| **16** | **SUNDAY** | |
| 17 | Monday | Engineering Building Committee. Chemistry and Mining Building Committee. |
| 18 | Tuesday | |
| 19 | Wednesday | |
| 20 | Thursday | |
| 21 | Friday | |
| 22 | Saturday | |
| **23** | **SUNDAY** | |
| 24 | Monday | Meeting of Governors. |
| 25 | Tuesday | |
| 26 | Wednesday | |
| 27 | Thursday | |
| 28 | Friday | |
| 29 | Saturday | |
| **30** | **SUNDAY** | |

| | | |
|---|---|---|
| 1 | Monday | Dominion Day. Library closed. |
| 2 | Tuesday | |
| 3 | Wednesday | |
| 4 | Thursday | |
| 5 | Friday | |
| 6 | Saturday | |
| **7** | **SUNDAY** | |
| 8 | Monday | |
| 9 | Tuesday | |
| 10 | Wednesday | |
| 11 | Thursday | |
| 12 | Friday | |
| 13 | Saturday | |
| **14** | **SUNDAY** | |
| 15 | Monday | |
| 16 | Tuesday | |
| 17 | Wednesday | |
| 18 | Thursday | |
| 19 | Friday | |
| 20 | Saturday | |
| **21** | **SUNDAY** | |
| 22 | Monday | |
| 23 | Tuesday | |
| 24 | Wednesday | |
| 25 | Thursday | |
| 26 | Friday | |
| 27 | Saturday | |
| **28** | **SUNDAY** | |
| 29 | Monday | |
| 30 | Tuesday | |
| 31 | Wednesday | |

## AUGUST, 1912.

| | | |
|---|---|---|
| 1 | Thursday | |
| 2 | Friday | |
| 3 | Saturday | |
| **4** | **SUNDAY** | |
| 5 | Monday | |
| 6 | Tuesday | |
| 7 | Wednesday | |
| 8 | Thursday | |
| 9 | Friday | |
| 10 | Saturday | |
| **11** | **SUNDAY** | |
| 12 | Monday | |
| 13 | Tuesday | |
| 14 | Wednesday | |
| 15 | Thursday | |
| 16 | Friday | |
| 17 | Saturday | Peter Redpath Museum opened, 1882. |
| **18** | **SUNDAY** | |
| 19 | Monday | |
| 20 | Tuesday | |
| 21 | Wednesday | |
| 22 | Thursday | |
| 23 | Friday | |
| 24 | Saturday | |
| **25** | **SUNDAY** | |
| 26 | Monday | |
| 27 | Tuesday | |
| 28 | Wednesday | |
| 29 | Thursday | |
| 30 | Friday | |
| 31 | Saturday | |

# McGill University.

## HISTORY AND CONSTITUTION.

### Foundation and Early History.

McGill University owes its origin to a private endowment. It was founded by the Hon. James McGill, a leading merchant and public-spirited citizen of Montreal, who died in 1813. By his will, dated January 8th, 1811, he bequeathed his property of Burnside (consisting of 46 acres of land with the dwelling house and other buildings thereon) and a sum of £10,000 in money to found a college in a provincial university, the erection of which had already been provided for by the British Government. The four trustees appointed under his will were directed to convey the property of the bequest to the Royal Institution for the Advancement of Learning, a body which, in 1802, had been incorporated by the Legislature "for the establishment of free schools and the advancement of learning" in the Province of Quebec. The conditions upon which the property was to be transferred to the Royal Institution for the Advancement of Learning were, mainly, that that Institution should, within ten years after the testator's decease, erect and establish on his Burnside estate "a University or College, for the purposes of education and the advancement of learning in this Province," and that the college, or one of the colleges in the University, if established, should "be named and perpetually be known and distinguished by the appellation of McGill College." Owing to persistent opposition by the leaders of one section of the people to any system of governmental education and to the refusal by the Legislature to make the grants of land and money which had been promised, the proposed establishment of the provincial university by the British Government was abandoned.

In so far as the McGill College was concerned, however, the Royal Institution at once took action by applying for a Royal

Charter. Such a charter was granted in 1821, and the Royal Institution prepared to take possession of the estate. But, owing to protracted litigation, this was not surrendered to them till 1829, when the work of teaching was begun in two faculties, Arts and Medicine. The record of the first thirty years of the University's existence is an unbroken tale of financial embarrassment and administrative difficulties. The charter was cumbrous and unwieldy, and unsuited to a small college in the circumstances of this country, and the University, with the exception of its medical faculty, became almost extinct. But after thirty years the citizens of Montreal awoke to the value of the institution which was struggling in their midst. Several gentlemen undertook the responsibility of its reorganization, and, in 1852, an amended charter was secured. The Governor-General of Canada for the time being, Sir Edmund Head, became interested in its fortunes, and in 1855, with the advent of a new Principal, an era of progress and prosperity began.

A Course in Law was begun in connection with the Faculty of Arts, in 1848, and the department was established as a separate faculty in 1853. The Faculty of Applied Science was not regularly organized till 1878, but a course in Engineering, which was amplified into the Department of Practical Science in 1871, was given under the Faculty of Arts as far back as 1856. The Faculty of Agriculture was established in 1907.

## Principal Dates in the History of the University.

First Charter obtained.—1821.
College opened.—1829.
Amended Charter secured.—1852.
William Molson Hall opened.—October 10th, 1862.
Peter Redpath Museum opened.—August 16th, 1882.
Physics and Engineering Buildings opened.—February 24th, 1893
Redpath Library opened.—October 31st, 1893.
Chemistry and Mining Building opened.—December 20th, 1898.
Strathcona Medical Buildings opened.—September 19th, 1901.
Conservatorium of Music opened.—October 14th, 1904.
Macdonald Engineering Building burned.—April 5th, 1907.
Medical Building burned.—April 16th, 1907.
New Engineering Building opened.—April 27th, 1909.
New Medical Building opened.—June 5th, 1911.

## Government of the University.

By the amended Charter "the Governors, Principal, and Fellows" of the University are constituted a body politic and corporate, with all the usual rights and privileges of corporate bodies. The supreme authority, however, is vested in the Crown, and is exercised by His Excellency the Governor-General of Canada, for the time being, as **Visitor**. This is a special and important feature of the constitution, for, while it gives the University an imperial character and removes it at once from any merely local or party influence, it secures the patronage of the head of the political system of the country.

The **Governors** of the University are the members of the Royal Institution for the Advancement of Learning, above mentioned, and in them are vested the management of finances, the passing of University statutes and ordinances, the appointment of professors, and other important duties. Their number is limited to twenty-five, and vacancies are filled by the nomination of the remaining members, with the approval of the Visitor. The President of the Board of Governors is, *ex-officio*, Chancellor of the University.

The **Principal** is the academic head and chief administrative officer. He is appointed by the Board of Governors (of which body he is a member, *ex-officio*). He also holds the office of Vice-Chancellor of the University.

The **Fellows** (42 in number) are selected with reference to the representation of all the faculties and departments of the University, and of the graduates, affiliated colleges, and other bodies.

The Governors, Principal and Fellows, together constitute the **Corporation**, the highest academical body. Its powers are fixed by statute, and include the framing of all regulations touching courses of study, matriculation, graduation, discipline and the granting of degrees.

The Principal, the Deans of the several Faculties, the Professors and Associate Professors, and other members, not exceeding ten in number, of the teaching staff, constitute the **Academic Board** of the University, with the duty of considering such matters as pertain to the interests of the University as a whole, and of making recommendations concerning the same.

## INCORPORATED AND AFFILIATED COLLEGES.

### Incorporated Colleges.

**Macdonald College.**—This is an incorporated college of the university, situated at Ste. Anne de Bellevue, about twenty miles from Montreal. It consists of three departments:—the School of Agriculture, the School of Household Science, and the School for Teachers. Courses leading to the Bachelor's and Master's Degrees in Agriculture are under the control of the Corporation of McGill University; all the short term courses in Agriculture, as well as the courses in Domestic Science, are under the direction of the Macdonald College Committee; and those for diplomas to teach in the Province of Quebec are subject to the immediate supervision of the Teachers' Training Committee. Further information is given on page 128, and full details as to the College buildings, courses, terms of admission, fees, etc., will be found in the Macdonald College Announcement, which will be sent on application to the Principal of Macdonald College.

**The McGill University College of British Columbia.**—This is a branch of the University in British Columbia, with two teaching centres. In the main college at Vancouver courses are conducted up to the end of the Third Year in the Faculty of Arts and of the Second Year in the Faculty of Applied Science. In the branch at Victoria students are able to complete the work of the first two years in Arts. Detailed information is given in the College Bulletin which may be had on application to the Registrar, McGill University College of British Columbia, Vancouver, B.C.

### Affiliated Colleges.

**Mount Allison, Acadia and Alberta Universities** are affiliated to McGill University to the extent that students who have completed the Two-Year Course in Engineering given by these universities are admitted directly to

the Third Year in the Civil and Mining Engineering Courses of the Faculty of Applied Science of McGill University. They will also be admitted to the same standing in the Chemical, Electrical, Mechanical and Metallurgical Engineering Courses when the extra summer work demanded of students in these courses at the end of the Second Year has been completed.

## Affiliated Theological Colleges.

The Theological Colleges named below are affiliated with the University under the following arrangement:—Students in these institutions who are pursuing a double course in Arts and Theology (six years at least) will be exempted from a half course in Arts in each of the Third and Fourth Years or a whole course in either.

**The Congregational College of Canada, Montreal.**—Principal, Rev. E. M. Hill, D.D., 58 McTavish St.

**The Diocesan College of Montreal.**—Principal, Rev. E. I. Rexford, M.A., LL.D., 201 University St.

**The Presbyterian College, Montreal,** in connection with the Presbyterian Church in Canada.—Principal, Rev. John Scrimger, M.A., D.D., 69 McTavish St.

**The Wesleyan College of Montreal.**—Acting Principal, Rev. W. M. Patton, Ph.D., D.D., 224 University St.

Calendars of the above Colleges and all necessary information may be obtained on application to the Principals.

## Affiliation to Other Universities.

The University is affiliated to the universities of Oxford, Cambridge and Dublin, under conditions which allow an undergraduate who has taken two years' work, and has passed the Second Year sessional examination in Arts, to pursue his studies and take his degree at any of those universities on a reduced period of residence.

# FACULTIES AND COURSES.

The educational work of the University is carried on in McGill College, the Royal Victoria College for Women, and other University Buildings in Montreal; and also in Macdonald College at Ste Anne de Bellevue; and in the McGill University College of British Columbia, with branches at Vancouver and Victoria.

## COURSES FOR DEGREES AND DIPLOMAS.

The several courses offered by the University are as follows:—

**In the Faculty of Arts.**

For the degree of Bachelor of Arts.
" " " " Bachelor of Science.
" " Diploma of Commerce.

The undergraduate courses of study which lead to the degree of B.A. or of B.Sc., extend over four sessions of about seven and a half months each. For further particulars regarding these courses see page 90, *et seqq.*, and also the separate Faculty announcement, which will be sent on application. In the Second, Third and Fourth Years extensive options are provided, and certain exemptions are also allowed to professional students.

The undergraduate course in Arts can be taken along with the undergraduate course in Medicine, in seven years, or with that in Applied Science in six years. (See page 95.)

The degrees of B.A. and B.C.L. can be obtained in six years and, under special circumstances, in five years. (See page 96.)

A certificate of Literate in Arts is given along with the degree in Medicine, Applied Science, or Law, to candidates who have completed two years in Arts before entering the professional Faculty.

This certificate of Literate in Arts is also given to students of affiliated colleges who have completed the work of the first

two years in Arts and have passed the prescribed examinations, as undergraduates of McGill University.

Full particulars regarding the course for the Diploma of Commerce are given in the announcement of the Faculty of Arts.

The courses in Arts are open to women (who are educated mainly in separate classes) on equal terms with men. Residential accommodation for women students is provided in the Royal Victoria College. (For further particulars see page 123.)

Holders of the degree of B.A. from this University are admitted to the study of the learned professions, without preliminary examination, in the Provinces of Canada, and in Great Britain and Ireland, and elsewhere. They will also be granted Academy diplomas to teach in the Province of Quebec, provided they have passed an examination in pedagogy and have taught, under supervision, for the time required by law.

**In the Faculty of Applied Science.**

For the degree of Bachelor of Architecture (B. Arch.)

For the degree of Bachelor of Science (B.Sc.), in the departments of chemistry, chemical engineering, civil engineering, electrical engineering, mechanical engineering, metallurgy, metallurgical engineering, mining engineering, and railways.

The undergraduate courses of study extend over four sessions, averaging (with summer sessions) about eight months each, and provide a thorough professional training in the departments mentioned above. For further information see pages 98 *et seqq.* (Full particulars are given in the special Faculty announcement which can be obtained at the Registrar's office.)

The undergraduate course in Arts can be taken along with the undergraduate course in Applied Science in six years. (See page 95.)

**In the Faculty of Law.**

For the degree of Bachelor of Civil Law (B.C.L.)

The undergraduate course extends over three sessions of eight months each, and leads to the degree of Bachelor of Civil Law (B.C.L.).

The undergraduate course in Arts can be taken along with the undergraduate course in Law in six years and, under special circumstances, in five years.

For further particulars, see page 101, and the separate Faculty announcement.

**In the Faculty of Medicine.**

For the degree of Doctor of Medicine and Master of Surgery (M.D., C.M.)

For the degree of Doctor in Dental Science (D.D.S.)

For the Diploma of Public Health.

The undergraduate course of study leading to the degree of M.D., C.M., extends over five sessions of eight months each, and that leading to the degree of Doctor in Dental Science extends over four sessions of the same length. For further information see page 103 and the separate announcement of the Faculty which will be sent on application.

The undergraduate course in Arts can be taken along with the undergraduate course in Medicine in seven years. (See page 95.)

The course in Public Health and Sanitary Science is open to those only who have graduated in Medicine, or who possess some other qualification for practice. Generally speaking, it occupies a period of three months.

**In the Graduate School.**

For the degrees of Master of Arts, Master of Science and Doctor of Philosophy.

Full information as to admission and departments in which studies are offered will be found on page 118, and can also be obtained from the Chairman of the Committee on Graduate Studies to which Committee are also submitted all applications for the degrees of D.Sc. and D. Litt. These degrees are granted only on their recommendation.

**In Macdonald College.**

For the degree of Bachelor of Science in Agriculture.

Other courses in the School of Agriculture.

Courses in the School of Household Science.

The several courses for Teachers' diplomas.

The course of study for the degree of Bachelor of Science in Agriculture extends over four sessions of about eight months each. It aims to provide a thorough theoretical and practical training in the several branches of the science. See also page 128.

The Macdonald College announcement containing full details as to buildings, courses, terms of admission, fees, etc., can be obtained from the Principal, Macdonald College P. O., Que.

**In the Conservatorium of Music.**

For the degrees of Bachelor of Music (Mus. Bac.) and Doctor of Music (Mus. Doc.).

For the diploma of Licentiate in Music, and the several Grade examination certificates.

Students are admitted as *Regular Students* taking an organized course leading to the diploma of Licentiate in Music or the degree of Bachelor of Music (see page 109), or as *Partial Students,* who, under certain conditions and after examination, can obtain certificates bearing the imprimatur of the University. Full details can be obtained on application to the Secretary of the McGill Conservatorium of Music, 323 Sherbrooke St. W., Montreal.

**The Course in Military Science.**

This course can be taken by undergraduates in Arts, Applied Science and Law. Particulars are given on page 112.

# DEGREES.

## I. ORDINARY DEGREES.

The degrees conferred by the University are as follows:—B.A., B.Sc., B. Arch., B.C.L., B.S.A., Mus. Bac., M.D. C.M., D.D.S., D.C.L., Mus. Doc., M.A., M.Sc., Ph.D., D.Sc., D. Litt., and LL.D. (Honorary.)

In order to obtain the degrees of B.A; B.Sc.; B. Arch.; B.C.L.; B.S.A.; M.D., C.M.; and D.D.S., students are required to attend lectures (for length of courses, see pages 6 to 8), to complete the course of study for the degree sought, to pass all the prescribed examinations during the course, and any special examinations for graduation, and to perform such other exercises as may be prescribed to that end.

The requirements for degrees in Music are stated on page 109.

## II. HIGHER DEGREES.

*All theses for higher degrees, in order to be accepted, must be sent to the chairman of the Committee on Graduate Studies before April 15th, 1912. The examination will be held in April. No thesis will be received, or examination granted, until the fee for the degree has been paid.*

### Degree of M.A.

For requirements see under "Graduate School," page 119.

### Degree of M.Sc.

For requirements see under "Graduate School," page 120.

### Degree of D.Litt.

Candidates for the degree of Doctor of Literature must be Masters of Arts, and graduates of at least five years' standing, who shall have distinguished themselves by special research and learning in the domain of literature or philosophy. They are required to present a satisfactory thesis or published work.

### Degree of D.Sc.

Candidates for the degree of Doctor of Science must be Masters of Arts, or Masters of Science, or Doctors of Medicine, and graduates of at least five years' standing, who shall have distinguished themselves by special research and learning in the domain of science. They are required to present a satisfactory thesis or published work.

### Degree of Ph.D.

For requirements see under "Graduate School," page 121.

### Degree of D.C.L.

Candidates for the Degree of Doctor of Civil Law must be Bachelors of Civil Law of at least twelve years' standing. They are required to pass a special examination for the Degree and to present a satisfactory thesis or published work on some subject selected or approved by the Faculty of Law. For details of the examination, etc., see separate announcement of the Faculty of Law.

### Degree of LL.D.

The degree of Doctor of Laws is given only as an honorary degree.

## III. ADMISSION "AD EUNDEM GRADUM."

The following are the regulations applicable to admission "ad eundem gradum":—

*Extract from the Statutes, Chap. VIII.*

"Graduates of other universities desirous of admission to "the like degree in this University, may be so admitted by "the Corporation; due enquiry being first made as to their "moral character and sound learning, and opportunity given "to the several Faculties, or the Committee on Graduate "Studies, as may be required, to make such representation in "the premises as they may see fit. Provided always, that, "except in the case of candidates proceeding to a higher de- "gree, such application for admission shall not be put to "vote until after three months' notice, unless by unanimous "consent, and shall not be ordered, if as many as five members "of the Corporation shall vote against it."

*Extracts from the Regulations of the Corporation.*

"In all cases in which anyone is proposed for any 'ad "eundem' degree, it shall be necessary for the member or "members of the Corporation making such proposal, to state "in writing therewith the grounds upon which the granting "of such degree is advocated, and when the case shall be re- "ferred to the Faculties, under Chap. VIII. of the Statutes, "copies of such proposal and grounds shall be transmitted to "the Faculties by the Registrar for their consideration."

*Note. In considering applications under the above regulations, the Faculties will require as "grounds" the pursuit of a course of study or research in this University; association with the academic work of the University; or similar qualifications.*

*Admission "ad eundem gradum" is not granted merely as a titular distinction.*

"The degree of Bachelor of Arts or Bachelor of Science, "ad eundem, shall be granted only to candidates who are "proceeding to a higher degree, the lower degree being granted "only when the candidate has qualified for the higher."

"Graduates of all universities desiring an ad eundem "degree of this University, as a condition of entering on a "course of study leading to a higher degree, shall make appli- "cation to the Committee on Graduate Studies, who shall "thereupon report their recommendation to Corporation, "which body shall immediately take action without previous "reference to the various Faculties."

# ENTRANCE REQUIREMENTS.

All matters regarding matriculation are under the control of a Matriculation Board, which is constituted as follows:

(a) The Heads of all Departments which may include matriculation subjects, *ex-officio*.

(b) The Deans of the several Faculties and the Registrar of the Faculty of Medicine.

(c) Such other members of the teaching staff (or others), as may be appointed annually by Corporation, the Faculty of Arts being given the power, in any emergency, to make an appointment, *pro tempore*.

## I. Regulations.

1. Matriculation examinations (for entrance into all Faculties) are held only in June and September—in June at McGill College and (on application) at local centres; in September, at McGill College and the McGill University College of British Coumbia, in Vancouver and Victoria.

ALL INQUIRIES RELATING TO THE EXAMINATIONS SHOULD BE ADDRESSED TO THE REGISTRAR OF THE UNIVERSITY.

For the convenience of candidates in Great Britain, who are not otherwise qualified for entrance, an examination will be held regularly in London, Eng., each year, commencing on or about the 12th of June. The examination will be held at the City of London School, Victoria Embankment, London, E. C., under the directorship of Dr. J. D. McClure. Full information regarding the exact date of the examination, fee, etc., may be obtained from the Honorary Representative of the University, W. A. Evans, Esq., M.A., Secretary Headmasters' Conference, 12 King's Bench Walk, Temple, London, E.C.

2. Every candidate for examination is required to fill up an application form and return the same with the necessary fee (for which see page 16) one month before the examination begins. Blank forms may be obtained from the Registrar.

*No applications for examination in June will be received after May 20th.*

3. In order to obtain an examination at a local centre, the applicant must, before May 1st, submit to the Registrar the name of some suitable person, preferably a university graduate, who is willing to act as deputy examiner, i.e., receive the questions, hold the examination and forward the answers to Montreal. The University will be responsible for no other local expenses than the payment of the deputy-examiners.

4. The matriculation examination may be taken in two parts, candidates being free to make such a division of the subjects as may best suit their convenience. Credit will be given for any subjects passed at the first attempt, but unless all the requirements are completed, or at least all but two subjects, at the second, the whole will have to be taken over again. For the purposes of this regulation the June and September examinations shall be counted as one.

5. Candidates for entrance to Arts, Applied Science, Law, Music, or Agriculture who fail in a small part only of the whole examination may, if their general standing is sufficiently high, be allowed to enter the First Year as conditioned undergraduates. Those who are conditioned in a language must attend a special tutorial class during their first session, for which a fee of $10 is exigible. Any student, so conditioned, who fails to attend this class with regularity, will not be allowed to present himself for examination. The standing of a conditioned undergraduate will not as a rule be granted to any who have not presented themselves for examination in September, nor to those who have not shown sufficient knowledge of the subject or subjects in which they failed to justify the examiners in making a favourable recommendation. Conditioned undergraduates can obtain full undergraduate standing by passing at a subsequent June or September matriculation examination in the subject or subjects in which they failed and will not be permitted to enter the Second Year of their course of study until they have satisfied all matriculation requirements. In order to be admitted to the Faculty of Medicine a candidate must pass in every subject required.

6. When two or more books or subjects are prescribed for one examination it is necessary to pass in each.

7. A candidate in order to pass must obtain at least 40 per cent. of the total number of marks allowed for each subject.

8. The following certificates and diplomas will, if submitted to the Registrar, be accepted *pro tanto* in lieu of the matriculation examination, *i.e.*, in so far as the subjects and

standard of the examination taken to obtain them are, to the satisfaction of the Matriculation Board, equivalent to those required for the matriculation examination of this University. Candidates offering certificates which are not a full equivalent will be required to pass the matriculation examination in such of the required subjects as are not covered thereby:—

**Province of Quebec.**

The University School Leaving certificate.
The Model School diploma, under certain conditions.

**Province of Ontario.**

Junior and Senior Teachers' certificates.
Junior and Senior Matriculation certificates.

**Province of New Brunswick.**

First Class, Superior and Grammar School licences.

**Province of Nova Scotia.**

The leaving certificates of Grade XI and XII.

**Province of Prince Edward Island.**

First Class Teachers' licences.
Second Year certificates of Prince of Wales College.

**Province of British Columbia.**

Intermediate and Senior Grade certificates.

**Alberta and Saskatchewan.**

The Departmental examination certificates for Standards VII and VIII.

**Newfoundland.**

Associate Grade certificates.

**Great Britain.**

The School and Matriculation certificates of the universities of Oxford, Cambridge and London, and the Leaving examination certificates of the Scotch Education Department.

Applications for exemption from the matriculation examination, based upon certificates of having passed examinations other than those above mentioned, will be considered as

occasion may require by the Matriculation Board. Every such application must be accompanied by certificates and full particulars, and should be addressed to the Registrar.

## II. Matriculation Examination Fees.

| | |
|---|---|
| For the first examination* ..... | $5.00 |
| (For examination at a local centre where not more than two candidates are writing the fee will be determined by the Registrar, provided however, that it shall in no case exceed $12 for each candidate.) | |
| For a subsequent examination in one or two subjects ..... | 2.00 |
| For a subsequent examination in three or more subjects ..... | 3.00 |
| For examination of certificates, in respect of which candidates are exempted from the whole of the matriculation examination ..... | 1.00 |

Matriculation examination fees must be sent to the University Registrar at the time of application for the examination. No application will be accepted unless accompanied by the regular fee.

Certificates will be issued to successful candidates without additional fee.

## III. Subjects of Examination.

### FACULTY OF ARTS.

(*For candidates intending to take the B.A. course.*)

1. **English Composition.**
2. **English Literature.**
3. **History.**
4. **Latin** *or* **Greek.**
5. One of the following:
   **Greek** *or* **Latin** (the one not already chosen),
   **French, German.**
6. **Algebra, Part I.**
7. **Geometry, Part I.**
8. One of the following:
   **Physiography, Botany, Chemistry, Physics, a Language** not already chosen.

* In the case of candidates who qualify on certificates, or by other examinations in all but three subjects, or less, the fee will be $3.00.

(*For candidates intending to take the B.Sc. course in Arts.*)

1. **English Composition.**
2. **English Literature.**
3. **History.**
4. **Algebra, Part I.**
5. **Geometry, Part I.**
6. **French.**
7. **Latin** *or* **German** *or* **Physics.**
8. One of the following:
   **Physiography, Botany, Chemistry, Physics** (if not already chosen), **Latin** (if not already chosen), **Greek.**

Candidates who intend ultimately to proceed to the study of Medicine are reminded that for medical registration it is necessary to take Latin.

(*For candidates entering on the course for the Diploma of Commerce.*)

One of the following examinations:—

1. The ordinary matriculation examination for the B.A. or the B.Sc. Course.

2. An examination on the following subjects:—

1. **English Composition.**
2. **English Literature.**
3. **History.**
4. **French,** including oral examination (pass standard 50 per cent.)
5. **Algebra, Part I.**
6. **Geometry, Part I.**
7. **Book-Keeping.**
8. One of the following, viz:
   **Physiography, Botany, Chemistry, Physics.**

Holders of Model School diplomas who are certified by the Head of the School of Education of Macdonald College to have taken 75 per cent. of the total marks at their final examinations, with not less than 50 per cent. of the marks in (1) mathematics, (2) French, and (3) Latin or Greek, respectively, will be admitted without further examination as undergraduates of the First Year in Arts.

## FACULTY OF APPLIED SCIENCE.

*(For all courses leading to the Degree of B.Sc. in the different branches of Engineering.)*

1. English Composition.
2. English Literature.
3. History.
4. One of the following:
   French, German, Latin, Greek.
5. Algebra, Parts I and II.
6. Geometry, Parts I and II.
7. Trigonometry.
8. One of the following:
   Physiography, Botany, Chemistry, Physics, a Language not already chosen.

*(For the course leading to the Degree of B. Arch.)*

1. English Composition.
2. English Literature.
3. History.
4. French.
5. One of the following:
   Greek, Latin, German, Chemistry, Physics.
6. Algebra, Part I.
7. Geometry, Part I.
8. Freehand and Geometrical Drawing.

In the case of No. 8, applicants may send specimens of their work to the Head of the Department or make arrangements with him to undergo a test. No examinations taken elsewhere are accepted as equivalents for this subject.

## FACULTY OF MEDICINE.

1. English Composition.
2. English Literature.
3. History.
4. Latin.
5. Algebra, Part I.
6. Geometry, Part I.
7. Chemistry.
8. Physics.
9. One of the following:
   Greek, French, German.

In addition to the certificates mentioned on page 15, the following are accepted in lieu of the matriculation examination for entrance in Medicine, provided they cover Latin:

The degree of Bachelor of Arts obtained from any recognized university.

A certificate of having passed the examination of a Provincial Medical Council.

In the case of candidates from the United States, a certificate of having passed a State or University examination fully equivalent to the matriculation examination required for entrance in this University.

No candidate will be admitted to the Faculty of Medicine without having satisfied all the Matriculation examination requirements.

Those who intend to practise Medicine in any of the Provinces of Canada will obtain information regarding registration and admission to study by corresponding with the Registrars of the several Provincial Medical Councils.

## FACULTY OF LAW.

1. **English Composition.**
2. **English Literature.**
3. **History.**
4. **Latin.**
5. **French.**
6. **Algebra, Part I.**
7. **Geometry, Part I.**
8. One of the following:
   **Physiography, Botany, Chemistry, Physics, Greek, German.**

In addition to those who qualify on the certificates mentioned on page 15, Bachelors of Arts, Science, or Letters of any Canadian or British University are admitted without examination.

No candidate domiciled in the Province of Quebec shall be admitted as an undergraduate in the Faculty of Law who shall not, in addition to other matriculation requirements, possess an adequate knowledge of French. Every candidate for admission as an undergraduate, whether exempt from the matriculation examination or not, shall be specially examined in this subject by an examiner appointed by Corporation, on the recommendation of the Matriculation Board, before being allowed to enter, and shall not be considered to possess an adequate knowledge unless he can speak the language with fair fluency and can translate with ease a passage of English into French.

Candidates who intend to practise Law or to be admitted to the notarial profession in the Province of Quebec are referred

to the statutory requirements, as shown in the special announcement of the Faculty of Law. If they are not graduates they should pass the examination for admission to study required by the Council of the Bar or by the Board of Notaries, as the case may be, before seeking to matriculate. In that case they will be matriculated without examination.

## FACULTY OF AGRICULTURE.

*(For the course leading to the Degree of B.S.A.)*

1. **English Composition.**
2. **English Literature.**
3. **History.**
4. **Latin** *or* **French** *or* **German.**
5. **Algebra, Part I.**
6. **Geometry, Part I.**
7. Any two of the following:
   **Botany, Chemistry, Physics, Zoology.**

A matriculation certificate for entrance to any other Faculty of the University will also be accepted.

For the next two or three years, however, candidates for the degree will be allowed to proceed on satisfying the following conditions:—

(1) Pass before entrance in English grammar, history and geography, arithmetic and English composition.

(2) Obtain 60 per cent. of the marks in English and 50 per cent. in general proficiency in an examination on the work of the Two-Year Course, and be granted the permission of the Faculty to continue.

## DEPARTMENT OF MUSIC.

*(For the Course leading to the Degree of Bachelor of Music.)*

1. **English Grammar.**
2. **History and Geography.**
3. **Arithmetic.**
4. **English Composition.**
5. **English Literature.**
6. **French** *or* **German** *or* **Italian.**
7. **Rudiments of Music** (musical intervals, scales, clefs, time signatures, construction of chords, elementary harmony to chord of dominant seventh.

**Optional:**—Algebra, Part I and Geometry, Part I. A pass in either, or both, of these subjects will help to make up for deficiency in any others.

## IV. Requirements in Each Subject.

### English Grammar.

Main facts in connection with the history of the language; etymology and syntax. A good knowledge of parsing and analysis is essential. West's English Grammar for Beginners is recommended as a text-book.

One examination paper of an hour and three-quarters.

### History and Geography.

Candidates will be required to show a somewhat intimate acquaintance with the history of England, from 1485 to the present time. While any text-book written for the upper forms of schools may be used in preparation for the examination, Gardiner's Outline of English History (Longmans) is recommended.

The geography required will be that relating to the history prescribed.

One examination paper of two hours.

### Arithmetic.

All the ordinary rules, including square root, and a knowledge of the metric system.

One examination paper of two hours.

### English.

*Composition.*

As in Sykes's Elementary Composition, with an essay on some subject connected with the works prescribed in literature. Frequent practice in composition is essential.

*Literature.*

1911 and 1912.—Any two of the following: Shakspere's Julius Cæsar; Nineteenth Century Prose (ed. Cunliffe), pp. 127 to the end, with notes (Copp, Clark Co.); Poems of the Romantic Revival (Copp, Clark Co.), pages 83 to the end, with notes; Tennyson's Select Poems, editor Alexander (Copp, Clark Co.).

Two examination papers of two hours each.

An alternative paper will be set on the work specified in English for the Junior matriculation examination of the Province of Ontario.

Spelling will be tested by the candidates' papers in English Composition and Literature. Examiners in other subjects will also take note of mis-spelled words and will report flagrant cases to the Board.

**Greek.**

For 1911 and 1912—

*Texts.*—Xenophon, Anabasis, Book 1, Chaps. 1 to 8.

*Grammar.*—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

*Translation at Sight* from Greek into English.

*Composition.*—Translation into Greek of detached English sentences and easy narrative based on the prescribed texts.

Two papers of two hours each will be set; one on composition and translation at sight, the other on prescribed texts and grammar.

Alternative questions will be set on the work prescribed in Greek for the Junior matriculation examination of the Province of Ontario, if this differs from that specified above.

At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

**Latin.**

For 1911 and 1912—

*Texts.*—Cæsar, De Bello Gallico, Book IV, Chap. 20 to the end, and Book V; Ovid, Stories from the Metamorphoses (as in Gleason's "A Term of Ovid," American Book Company), lines 1 to 670.

*Grammar.*—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

*Translation at Sight* from Latin into English.

*Composition.*—Translation into Latin of detached English sentences and easy narrative based on the prescribed texts.

Two papers of two hours each will be set; one on composition and translation at sight, the other on prescribed texts and grammar.

Note.—The Roman method of pronouncing Latin is recommended.

An alternative paper will be set on the Latin texts prescribed for the Junior matriculation examination of the Province of Ontario, if these differ from those specified above.

At the September examination other texts in Latin equivalent to those specified may be accepted, if application be made to the Registrar at least a month before the day of the examination.

**French.**

*Grammar.*—A thorough knowledge of French accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

*Translation at Sight* into English of a French passage of moderate difficulty.

*Translation at Sight* into French of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of French Grammar. Candidates are required to pass in English-French translation as well as in the paper as a whole.

Books recommended:—Bertenshaw's French Grammar (Longmans), and Cameron's Elements of French Prose Composition (Holt & Co.).

One examination paper of two hours.

*For Special Regulation re Matriculation in Law, see page* 19.

**German.**

*Grammar.*—A thorough knowledge of German accidence and of the syntax of the topics treated in Lessons 46, 47, 57, 58, 59 and 60 of the Joynes-Meissner Grammar, and as presented in the Joynes-Meissner, Van der Smissen, or any other German Grammar of equally good standing.

*Translation at Sight* into English of a German passage of moderate difficulty.

*Translation into German* of detached English sentences and of an easy English passage. Material for such translation is selected with a view to exemplifying the points of grammar included within the above limits.

TEXTS.—(Translation and grammatical study):—

For 1911 and 1912.—Volkmann, Kleine Geschicten( Heath & Co.); Stille Wasser, ed. Bernhardt (Heath & Co.). It is recommended that candidates should read the prescribed texts in the above order, beginning in Volkmann's Kleine Geschicten with Himmelsschlüssel and Siebenmeilenstiefel.

The Ontario Junior matriculation requirements in German will be accepted in place of the texts specified above.

At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

One examination paper of two hours.

**Algebra, Part I.**

Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities; as in Hall and Knight's Elementary Algebra to the end of surds (omitting portions marked with an asterisk), or as in similar text-books.

One examination paper of two hours.

**Algebra, Part II.**

The three progressions, ratio, proportion, variation, permutations and combinations, binomial theorem, logarithms, theory of quadratic equations, as in the remainder of Hall and Knight's Elementary Algebra (omitting Chaps. 40 to 44 inclusive), or as in similar text-books.

One examination paper of an hour and three-quarters.

**Geometry, Part I.**

Euclid's Elements, Books I, II, III, with easy deductions; or an equivalent.*

An alternative paper will be set on the Ontario Junior matriculation requirements in this subject.

One examination paper of two hours.

In 1913 and thereafter the requirements for the examination in Geometry, Part I, shall be as follows:—

The paper shall contain questions on practical and on theoretical geometry. Every candidate shall be expected to answer questions in both branches of the subject.

The questions on practical geometry shall be set on the constructions contained in the annexed Schedule A, together with easy extensions of them. In cases where the validity of a construction is not

*The text-book at present used in McGill University, and also authorized for use in the schools of the Province of Quebec, is Hall and Stevens' Euclid (Macmillan & Co.). Teachers will find Godfrey and Siddons' Elementary Geometry and Hall and Stevens' School Geometry useful adjuncts as far as regards practical applications.

obvious, the reasoning by which it is justified may be required. Every candidate shall provide himself with a ruler graduated in inches and tenths of an inch, and in centimetres and millimetres, a set square, a protractor, compasses and a hard pencil. All figures should be drawn accurately. Questions may be set in which the use of the set square or of the protractor is forbidden.

The questions on theoretical geometry shall consist of theorems contained in the annexed Schedule B, together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition shall be accepted which appears to the examiners to form part of a systematic treatment of the subject; the order in which the theorems are stated in Schedule B is not imposed as the sequence of their treatment.

In the proof of theorems and deductions from them, the use of hypothetical constructions shall be permitted. Proofs which are only applicable to commensurable magnitudes shall be accepted.

### SCHEDULE A.

Bisection of angles and of straight lines.

Construction of perpendiculars to straight lines.

Construction of an angle equal to a given angle.

Construction of parallels to a given straight line.

Simple cases of the construction from sufficient data of triangles and quadrilaterals.

Division of straight lines into a given number of equal parts or into parts in any given proportions.

Construction of a triangle equal in area to a given polygon.

Construction of tangents to a circle and of common tangents to two circles.

Simple cases of the construction of circles from sufficient data.

Construction of a fourth proportional to three given straight lines and a mean proportional to two given straight lines.

Construction of regular figures of 3, 4, 6 or 8 sides in or about a given circle.

Construction of a square equal in area to a given polygon.

### SCHEDULE B.

If a straight line stands on another straight line, the sum of the two angles so formed is equal to two right angles; and the converse.

If two straight lines intersect, the vertically opposite angles are equal.

When a straight line cuts two other straight lines, if (i) a pair of alternate angles are equal, or (ii) a pair of corresponding angles are equal, or (iii) a pair of interior angles on the same side of the cutting line are together equal to two right angles, then the two straight lines are parallel; and the converse.

Straight lines which are parallel to the same straight line are parallel to one another.

The sum of the angles of a triangle is equal to two right angles.

If the sides of a convex polygon are produced in order, the sum of the angles so formed is equal to four right angles.

If two triangles have two sides of the one equal to two sides of the other, each to each, and also the angles contained by those sides equal, the triangles are congruent.

If two triangles have two angles of the one equal to two angles of the other, each to each, and also one side of the one equal to the corresponding side of the other, the triangles are congruent.

If two sides of a triangle are equal, the angles opposite to these sides are equal; and the converse.

If two triangles have the three sides of the one equal to the three sides of the other, each to each, the triangles are congruent.

If two right-angled triangles have their hypotenuses equal, and one side of the one equal to one side of the other, the triangles are congruent.

If two sides of a triangle are unequal, the greater side has the greater angle opposite to it: and the converse.

Of all the straight lines that can be drawn to a given straight line from a given point outside it, the perpendicular is the shortest.

The opposite sides and angles of a parallelogram are equal, each diagonal bisects the parallelogram, and the diagonals bisect one another.

If there are three or more parallel straight lines, and the intercepts made by them on any straight line that cuts them are equal, then the corresponding intercepts on any other straight line that cuts them are also equal.

Parallelograms on the same or equal bases and of the same altitude are equal in area.

Triangles on the same or equal bases and of the same altitude are equal in area.

Equal triangles on the same or equal bases are of the same altitude.

Illustrations and explanations of the geometrical theorems corresponding to the following algebraical identities:

$$k\,(a + b + c \ldots) = ka + kb + kc + \ldots.$$

$$(a + b)^2 = a^2 + 2ab + b^2 \quad \ldots.$$

$$(a - b)^2 = a^2 - 2ab + b^2 \quad \ldots.$$

$$(a^2 - b^2) = (a + b)\,(a - b).$$

The square on a side of a triangle is greater than, equal to, or less than the sum of the squares on the other two sides, according as the angle contained by those sides is obtuse, right, or acute. The difference in the cases of inequality is twice the rectangle contained by one of the two sides and the projection on it of the other.

The locus of a point which is equidistant from two fixed points is the perpendicular bisector of the straight line joining the two fixed points.

The locus of a point which is equidistant from two intersecting straight lines consists of the pair of straight lines which bisect the angles between the two given lines.

A straight line, drawn from the centre of a circle to bisect a chord which is not a diameter, is at right angles to the chord; conversely, the perpendicular to a chord from the centre bisects the chord.

There is one circle, and one only, which passes through three given points not in a straight line.

In equal circles (or, in the same circle) (i) if two arcs subtend equal angles at the centres, they are equal; (ii) conversely, if two arcs are equal, they subtend equal angles at the centres.

In equal circles (or, in the same circle) (i) if two chords are equal, they cut off equal arcs; (ii) conversely, if two arcs are equal, the chords of the arcs are equal.

Equal chords of a circle are equidistant from the centre; and the converse.

The tangent at any point of a circle and the radius through the point are perpendicular to one another.

If two circles touch, the point of contact lies on the straight line through the centres.

The angle which an arc of a circle subtends at the centre is double that which it subtends at any point on the remaining part of the circumference.

Angles in the same segment of a circle are equal; and, if the line joining two points subtends equal angles at two other points on the same side of it, the four points lie on a circle.

The angle in a semicircle is a right angle; the angle in a segment greater than a semicircle is less than a right angle; and the angle in a segment less than a semicircle is greater than a right angle.

The opposite angles of any quadrilateral inscribed in a circle are supplementary; and the converse.

If a straight line touch a circle, and from the point of contact a chord be drawn, the angles which this chord makes with the tangent are equal to the angles in the alternate segments.

If two chords of a circle intersect either inside or outside the circle the rectangle contained by the parts of the one is equal to the rectangle contained by the parts of the other.

If a straight line is drawn parallel to one side of a triangle, the other two sides are divided proportionally; and the converse.

If two triangles are equiangular their corresponding sides are proportional; and the converse.

If two triangles have one angle of the one equal to one angle of the other and the sides about these equal angles proportional, the triangles are similar.

The internal bisector of an angle of a triangle divides the opposite side internally in the ratio of the sides containing the angle, and likewise the external bisector externally.

The ratio of the areas of similar triangles is equal to the ratio of the squares on corresponding sides.

TEXT-book recommended for the present:—Godfrey and Siddons' Elementary Geometry (Pitt Press, Cambridge), or Hall and Stevens' School Geometry.

## Geometry, Part II.

Euclid's Elements Books IV. and VI., with definitions of Book V., and easy deductions; or an equivalent.*

*The text-book at present used in McGill University and also authorized for use in the schools of the Province of Quebec, is Hall and Stevens' Euclid (Macmillan & Co.). Teachers will find Godfrey and Siddons' Geometry and Hall & Stevens' School Geometry useful adjuncts as far as regards practical applications.

One examination paper of an hour and three-quarters.

In 1913, and thereafter the examination in Geometry, Part II, will be based on the following schedule:—

Constructions.

To draw the inscribed, escribed, and circumscribing circles of a triangle.

To construct triangles under given conditions.

To divide a given line externally and internally in medial section.

To construct an isosceles triangle, such that each of the base angles is twice the vertical angle.

To describe a regular pentagon.

To construct a polygon similar to a given polygon, and such that their areas are in a given ratio.

To construct a figure equal in area to a given figure A, and similar to another figure B.

Theorems.

If two sides of one triangle be equal respectively to two sides of another, that with the greater contained angle has the greater base; and conversely.

If a triangle is such that the square on one side is equal to the sum of the squares on the other two sides, the angle contained by these sides is a right angle.

The three medians of a triangle are concurrent.

Perpendiculars from the angles to the opposite sides of a triangle are concurrent.

The complements of parallelograms about the diagonal of any parallelogram are equal.

If the circumference of a circle be divided into $n$ equal arcs.

(1) The points of division are the vertices of a regular polygon of $n$ sides inscribed in the circle;

(2) If tangents be drawn to the circle at these points, these tangents are the sides of a regular polygon of $n$ sides circumscribed about the circle.

If $OA:OB = OC^2$, OC is a tangent to the circle through $\overline{A}\,\overline{B}\,C$.

If two triangles have an angle in each equal, and the sides about two other angles proportional, the remaining angles are equal or supplemental.

The perpendicular from the right angle of a right-angled triangle on the hypotenuse divides the triangle into two triangles which are similar to the original triangle.

The sum of the rectangles contained by the opposite sides of a quadrilateral, about which a circle can be described, is equal to the rectangle contained by its diagonals.

The squares on two sides of a triangle are together equal to twice the square on half the third side and twice the square on the median to that side.

If from the vertical angle of a triangle a straight line be drawn perpendicular to the base the rectangle contained by the sides of the triangle is equal to the rectangle contained by the perpendicular and the diameter of the circle described about the triangle.

If the vertical angle of a triangle be bisected by a straight line which also cuts the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the segments of the base, together with the square on the straight line which bisects the angle.

The areas of two similar polygons are as the squares on corresponding sides.

In a right angled triangle the rectilineal figure described on the hypotenuse is equal to the sum of the similar and similarly described figures on the other two sides.

If three lines be proportional, the first is to the third as the figure on the first is to a similar figure on the second..

If the straight lines joining a point to the vertices of a given polygon are divided (all externally or all internally) in the same ratio, the points of division are the vertices of a similar polygon.

Two similar polygons may be so placed that the lines adjoining corresponding points are concurrent.

Triangles of equal altitude are as their bases.

In equal circles, angles, whether at the centres or circumferences, are proportional to the arcs on which they stand.

If P is any point on the circumscribing circle of a triangle, ABC, and PL, PM, PN are perpendicular to BC, CA, AB, respectively, LNM is a straight line.

A point P moves so that the ratio of its distances from two fixed points, Q and R, is constant; prove that the locus of P is a circle.

Areas.

Area of a circle.
Area of a sector of a circle.
Area of a segment of a circle.

Use of Squared Paper.

Marking points.
Finding areas of rectilinear and curvilinear figures.
Examples of plotting loci: in particular, the ellipse, hyperbola, and parabola.
Examples of loci and envelopes.

Deductions and Applications.

Deductions from, and simple applications of the constructions and theorems given above.

Text-book:—Godfrey and Siddons' Elementary Geometry (Pitt Press, Cambridge), or Hall and Stevens' School Geometry.

An alternative paper will be set on the work prescribed for Senior, or Honour, Matriculation in the Province of Ontario.

**Trigonometry.**

Measurement of angles, trigonometrical ratios or functions of one angle, of two angles, and of a multiple angle; as in

Lock's Elementary Trigonometry, Chaps. I to XII., Hall and Knight's Trigonometry, Chaps. I to XII., inclusive, omitting Chap. V.; or as in similar text-books.

One examination paper of an hour and a half.

**Physiography.**

The elements of the science, as in Davis's Elementary Physical Geography, or any other text-book covering the same ground.

One examination paper of an hour and a half.

**Botany.**

Text-book to be selected.

One examination paper of an hour and a half.

**Chemistry.**

Elementary inorganic chemistry, comprising the preparation and properties of the chief non-metallic elements and their more important compounds, the laws of chemical action, combining weight, etc. The ground is simply and effectively covered by Remsen's "Elements of Chemistry," pp. 1 to 165 and 218 to 243. (Macmillan's Edition.)

One examination paper of an hour and a half.

**Physics.**

Properties of matter; elementary mechanics of solids and fluids, including the laws of motion, simple machines, work, energy; fluid pressure and specific gravity; thermometry, the effects and modes of transmission of heat.

Text-books recommended—Gage's Introduction to Physical Science, 1902 edition (Ginn & Co.), Chaps. I. to IV., inclusive; or Elementary Physics and Chemistry, Stages II. and III., by Gregory & Simmons.

One examination paper of an hour and a half.

## V. Dates of the Examinations.

The examinations in 1911 will commence on Monday, June 12th, and on Thursday, September 21st. Special arrangements may be made for the examination of candidates who are prevented by severe illness or domestic affliction from presenting themselves on the dates fixed.

## MATRICULATION EXAMINATION TIME TABLE.

### SEPTEMBER, 1911.

THURSDAY, SEPTEMBER 21ST.

| | |
|---|---|
| Morning | 9–11.—English Grammar. |
| | 11–1.—English Literature. |
| Afternoon | 2.30–4.30.—English Composition. |
| | 4.30–6.30.—History |

FRIDAY, SEPTEMBER 22ND.

| | |
|---|---|
| Morning | 9–11.—Latin Authors. |
| | 11–1.—Arithmetic. |
| Afternoon | 2.30–4.30.—Latin Composition and Sight. |

MONDAY, SEPTEMBER 25TH.

| | |
|---|---|
| Morning | 9–11.—French. |
| | 11–12.30.—Trigonometry. |
| Afternoon | 2.30–4.30.—German. |
| | 4.30–6.—Chemistry and Botany. |

TUESDAY, SEPTEMBER 26TH.

| | |
|---|---|
| Morning | 9–11.—Geometry, Part I. |
| | 11–12.30.—Physics and Physiography. |
| Afternoon | 2.30–4.15.—Algebra, Part II. |

WEDNESDAY, SEPTEMBER 27TH.

| | |
|---|---|
| Morning | 9–11.—Algebra, Part I. |
| | 11–1.—Greek Authors. |
| Afternoon | 2.30–4.15.—Geometry, Part II. |
| | 4.15–6.15—Greek Composition and Sight. |

## VI. Admission to Advanced Standing.

### (1) *Entrance to Second Year Arts.*

Admission to the Second Year in Arts is open, as a rule, only to undergraduates who have passed the First Year Sessional Examination in regular course, but in special cases, to be dealt with by the Faculty, candidates may be admitted directly to the Second Year without having passed through the curriculum of the First Year.

### (2).—*Admission Ad Eundem Statum.*

Any student of another university applying for exemption from any subject or subjects which he has already studied is required to submit with his application a complete statement of the course he has followed, together with a certificate of the standing gained therein.

The Faculty, if otherwise satisfied, will decide what examination, if any, or what conditions may be necessary before admitting the candidate.

Undergraduates in Arts of the Second and Third Years, or graduates in Arts of any university, entering the Faculty of Applied Science, may at the discretion of the Faculty, be exempted from such lectures as they have previously attended as students in Arts.

## VII. Physical Examination.

In order to promote as far as possible the physical welfare of the student body, every student, on entering the University will be required to pass a physical examination to be conducted by, or under the direction of, the Medical Director of Physical Education or by a recognized representative.

By such an examination physical defects and weaknesses, amenable to treatment, may be discovered. The student would then be expected to apply to his physician for such remedial measures as his case may require.

Students would also be advised as to the forms of exercise or athletic activities which would likely be beneficial or injurious.

# CLASSES OF STUDENTS.

There are four classes of students in the University:—

(1) Graduates—students who have previously obtained an ordinary degree at McGill, or elsewhere, and who are now pursuing courses for the Master's degree (in Arts or Applied Science), or for the degree of Ph.D.

(2) Undergraduates—students who have passed the matriculation examination and, in the case of second, third and fourth year students, all the examinations of their course in the years below that in which they are registered.

(3) Conditioned Undergraduates—those with defective entrance qualifications or who have failed in one or more of the subjects of their course in the year previous to that in which they are registered.

(4) Partial Students—comprising all those who, not belonging to one of the above classes, are taking a partial course of study in the University. Except as provided below, such students may (subject to the approval of the Head of the Department and the Dean or the Committee appointed for this purpose) attend any class without previous examination.
In order to obtain admission to the First Year classes in French, intending students must have passed the University matriculation examination, or an equivalent examination, in that subject.

Except under special circumstances no student under the age of sixteen is admitted to the First Year courses in Arts, Applied Science or Medicine, or under the age of seventeen to the Second Year, and no student under the age of seventeen is admitted to the course in Law.

All students are required to attend lectures at the University, in Montreal, at Macdonald College (for the courses in Agriculture), or at one of the affiliated colleges.

## THE ACADEMIC YEAR.

The University Year or Session is divided into two terms, the first extending to the Christmas vacation, and the second from the expiry of the Christmas vacation to the date appointed for the meeting of convocation for the conferring of degrees. In the Faculty of Applied Science, however, the Session is divided into two terms of equal length, the first ending about January 15th.

The Session 1911-1912 will commence in all faculties on Monday, October 2nd, 1911. It will end in the Faculty of Medicine about June 5th, 1912, and in the other faculties on Friday, May 10th, 1912.

Two matriculation examinations (for entrance to all faculties) will be held in 1911, the first commencing on Monday, June 12th, and the second on Thursday, September 21st.

**Summer Classes.** During the months of May and June, a series of summer classes is conducted, intended mainly, in the first instance, to meet the requirements of students in the first two years of their course. The subjects offered in the Faculty of Arts are English, Latin, Greek, mathematics, physics, chemistry, logic, French, German, elementary animal biology and botany. The fees payable are stated on page 60. Classes will also be conducted in the following subjects of the First Year in the Faculty of Applied Science, if a sufficient number of students apply: Descriptive geometry, freehand drawing, lettering, mathematics, physics, shopwork. For fees, see page 62.

The summer school for training librarians will open on Wednesday, June 21st, 1911, and will close on Saturday, July 22nd.

Its object is, firstly, to aid librarians of small libraries and library assistants to study those technical subjects, without the knowledge of which no librarian can make even the smallest library as influential and as useful as it ought to be; secondly, to give the students a broader view of what the library should stand for in the community.

The principal subjects of study will be (a) *Classification*—based on Cutter's Expansive Classification, with practice work on selected books; (b) *Cataloguing*—the preparation of a dictionary catalogue on cards, including the various forms of author-entry, title and subject-entry, analytics and references; (c) *Reference Work*—discussion of books used in reference work, with problems; (d) *Principles of book selection,* with problems. Other topics including binding, library buildings, travelling libraries, and work with schools and children will receive attention. Anyone who holds a library position or appointment will be admitted without examination.

Fee for the course $5.00: Supplies and stationery about $3.00.

A summer school in French will be conducted during the month of July. Circulars containing precise information may be obtained from the Registrar.

Particulars regarding compulsory summer work in the Faculty of Applied Science are given in the separate announcement of the Faculty.

# REGISTRATION AND ATTENDANCE.

## 1. Registration.

BETWEEN SEPTEMBER 25TH AND SEPTEMBER 28TH, BOTH DATES INCLUSIVE, STUDENTS MAY REGISTER FOR THE SESSION 1911-1912 AT THE OFFICE OF THE UNIVERSITY REGISTRAR. SEPTEMBER 29TH WILL BE SPECIAL REGISTRATION DAY FOR NEW STUDENTS, WHEN THEY WILL REGISTER IN THE WILLIAM MOLSON HALL. ON SEPTEMBER 30TH THOSE WHO HAD BEEN PREVIOUSLY ENROLLED WILL REGISTER AS FOLLOWS:—ARTS STUDENTS (MEN) IN THE WILLIAM MOLSON HALL, (WOMEN) IN THE ROYAL VICTORIA COLLEGE; APPLIED SCIENCE STUDENTS IN THE ENGINEERING BUILDING AND MEDICAL STUDENTS IN THE NEW MEDICAL BUILDING. LECTURES WILL COMMENCE ON MONDAY, OCTOBER 2ND. THE COMPLETE REGULATIONS REGARDING REGISTRATION ARE AS UNDER.

1. Candidates entering on a course of study in any Faculty, whether as undergraduates, conditioned students or partial students, are required to attend at the office of the University Registrar, or such other place as he may designate, some time during the week preceding the opening day of the session, in order to furnish the information necessary for the University records, to register for the particular classes which they wish to attend, and to sign the following declaration in the matricula or register:—

"I hereby accept and submit myself to the statutes, rules, regulations and ordinances of McGill University, and of the Faculty or Faculties in which I am registered, and to any amendments thereto which may be made while I am a student of the University, and I promise to observe the same."

2. On the day immediately before the opening day of the session students who had been previously enrolled shall register for particular subjects as follows:—Arts students in the Molson Hall; Applied Science students in the Engineering Building; and Medical students in the Medical Building. They may also register during the five preceding days at the office of the University Registrar.

3. Students who for any reason have failed to register at the times specified above will be permitted to do so at the Registrar's Office within a limited time thereafter.

4. The Registrar is empowered to register all students whose records show that they are entitled to attend the classes applied for. All doubtful cases shall be dealt with by Committees as follows:— in the case of candidates registering for the first time, by a Committee of the Matriculation Board; in the case of all others, by a special Committee of the Faculty concerned.

5. The names of those who have registered for separate classes shall be sent by the Registrar to the Heads of Departments on registration day and subsequently, as new names are received, and only those for whom cards have been received by an instructor shall be admitted to his class; except in the case of students whose standing cannot be determined at the time of registration. To these special tickets will be issued, which will give them the right of admission to classes until such time as their status is ascertained.

6. Students desiring to make a change in their choice of studies must make application to the Registrar to do so on a regular form. This application must be approved by the Dean of the Faculty in which he is enrolled, whereupon due notice will be sent by the Registrar to all parties concerned. No change in registration will be allowed, except under special circumstances, after the fifteenth day of the Session.

7. Persons who wish to pursue courses in the University without a view to qualifying for a degree shall be classified as partial students and shall not be admitted to any course until they have obtained the permission of the Head of the Department concerned. Their application must then be approved by the Dean of the Faculty or the committee appointed for this purpose.

8. In the Faculty of Arts, where there is a choice of courses, students in attendance shall be required to choose their electives for the next year before the close of the preceding Session, or (in cases where this cannot be done), not later than one week before the opening of the Session.

## 2. Attendance.

Excuses on the ground of illness or domestic affliction shall be dealt with only by the Deans of the respective Faculties.

1. Students are required to attend at least seven-eighths of the total number of lectures in any one course. Those whose absences exceed one-eighth of the total number of lectures in a course shall not be permitted to come up for the examination in that course.

2. A record shall be kept by each Professor or Lecturer, in which the presence or absence of students shall be carefully noted. This record shall be submitted to the Faculty when required.

3. Credit for attendance on any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. In the case last mentioned, the student may, at the discretion of the Professor, be required to leave the room. Persistence in any of the above offences against discipline shall, after admonition by the Professor, be reported to the Dean of the Faculty concerned. The Dean may, at his discretion, reprimand the student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend from classes.

4. The following special regulations with regard to marking the attendance of students have been adopted by the Faculties of Arts and Applied Science respectively:—

I.—*By the Faculty of Arts.*

Lectures shall commence at five minutes after the hour, on the conclusion of the roll-call, and students failing to answer to their names shall be marked "absent," unless they report themselves at the close of the lecture, in which case they shall be marked "late" and given such credit for attendance as the Faculty may deem advisable. Lectures shall end at five minutes before the hour.

II.—*By the Faculty of Applied Science.*

Lectures will commence at five minutes after the hour, on the conclusion of the roll-call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they will, on reporting themselves at the close of the lecture, be marked "late." Two lates will count as one absence. Lectures end at five minutes before the hour.

# BOARD AND RESIDENCE.

No college residences have as yet been erected for men students, but dormitory accommodation for about 60 is provided in Strathcona Hall, the new home of the McGill Y.M.C.A. Full particulars concerning terms of residence, etc., may be obtained from the Secretary of the Association, 348 Sherbrooke St. West, Montreal, who will also make arrangements to have students who are strangers to the City met on arrival and helped to secure lodgings, if due notice is sent of the station and time at which they will arrive.

The erection of suitable University residential halls for men is contemplated in the near future.

Women students may board and reside either in private houses or in the Royal Victoria College, which provides, in addition to separate lecture rooms, residential accommodation for the women students of the University.

The expense of board and residence for the Session in the Royal Victoria College varies from $351 to $411, according to the position of the rooms. Students who do not remain over for the summer classes receive a deduction of $50 from the regular charge. Further particulars will be furnished by the Warden.

Good board and lodging can be obtained in private houses in the vicinity of the University buildings at a cost of from $21 and upwards per month; or, separately, board at $14 to $20 per month, rooms from $7 to $14 per month.

A list of suitable boarding and lodging houses, the sanitary conditions of which are required to be properly certified, is prepared about a fortnight before the opening of the Session each year, and may be obtained upon application to the Registrar of the University.

Excellent board is furnished in the McGill Union for twenty dollars per month. The dining room, which is a special feature of the Union, will accommodate over 120 students at a time. There is also a lunch counter where meals are served *à la carte*. A description of the building will be found on page 79.

## Students' Expenses.

(Approximate Estimate.)

### Faculty of Arts.

| | Minimum | Moderate |
|---|---|---|
| Tuition Fees ..... | $ 61 | $ 61 |
| Board and Lodging ..... | 140 | 175 |
| Books and Apparatus ..... | 10 | 15 |
| | $211 | $251 |

### Faculty of Applied Science.

| | Minimum | Moderate |
|---|---|---|
| Tuition Fees ..... | $200 | $200 |
| Board and Lodging ..... | 160 | 200 |
| Books and Instruments ..... | 20 | 30 |
| | $380 | $430 |

### Faculty of Medicine.

| | Minimum | Moderate |
|---|---|---|
| Tuition Fees ..... | $150 | $150 |
| Board and Lodging ..... | 160 | 200 |
| Books, Instruments, etc., .... | 35 | 45 |
| | $345 | $395 |

Undergraduates in Arts residing in Affiliated Theological Colleges, with a view to a course in Theology are able to obtain board and lodging for considerably less than the minimum and in all Faculties the expense under the head of "Books and Instruments" can be reduced by purchasing them at second-hand. It should be understood that the cost of these articles is less in the first two years than it is in the others. The average cost for the whole course is the estimate given.

# RAILWAY RATES.

## (1). Rates for Summer Vacations.

After April 15th, and up to June 30th, single fare return tickets will be issued to students of McGill University, on presentation of standard vacation certificates signed by the Principal or Registrar of the University, between Montreal and any station on the Intercolonial Railway in Quebec, and to any point in the Maritime Provinces, which is reached by either the Intercolonial or the Canadian Pacific Railways. These tickets will be good for return up to October 1st.

## (2). Special Rates for Students from the West.

Between any station in Canada on the Canadian Pacific Railway and Montreal, where the one way regular first-class rate is $20.00, or more, one way continuous passage tickets will be issued at half the regular first-class one way fare, minimum rate to be charged $20.00. For example, if the first-class one way rate is $50.00, $25.00 will be charged, but if the one way rate is less than $40.00, $20.00 will be collected. In order to obtain this rate, students (intending students as well as those in attendance) will be required to present a special certificate signed by the Principal or Registrar of the University. The certificates referred to can be obtained at the Registrar's Office.

# EXHIBITIONS, SCHOLARSHIPS AND PRIZES.

## I. SCHOLARSHIPS AND EXHIBITIONS—GENERAL.

1. THE RHODES SCHOLARSHIP.—This scholarship is of the annual value of £300 sterling and is tenable at the University of Oxford for three years. The scholar must be a British subject, must be over 19 and under 25 years of age, and must have reached at least the end of his Sophomore or Second Year in the University.

Rhodes Scholarships have been awarded as follows:—1904, Herbert J. Rose, B.A., and John G. Archibald, B.A.; 1905, Talbot M. Papineau, B.A.; 1906, Alexander R. McLeod, B.A.; 1908, Frank E. Hawkins, B.A.; 1911, Walter J. Pearse.

The next election of a Rhodes Scholar by McGill University will be in 1914.

2. SCIENCE SCHOLARSHIPS GRANTED BY HER MAJESTY'S COMMISSIONERS FOR THE EXHIBITION OF 1851.—These scholarships, of the value of £150 sterling a year, are tenable for two, or, in rare instances, three years. They are limited, according to the Report of the Commission, "to those branches of Science such as Physics, Mechanics and Chemistry, the extension of which is specially important for our national industries." Their object is not to facilitate ordinary collegiate studies, but "to enable students to continue the prosecution of science with the view of aiding in its advance or in its application to the industries of the country."

It is open to students of not less than three years' standing who have shown evidence of capacity for original research, and is tenable at any university or any other institution approved by the Commission.

A nomination to one of these Scholarships may be granted to McGill University in 1913, in which event applications should be sent in to the Registrar on or before March 1st.

This Scholarship has been awarded as follows:—

Evans, P.N., 1891; Macphail, J. A., 1893; King, R. O., 1895; Gill, J. L. W., 1897 ;McLean, W.B., 1899; McClung, R. K., 1901; Cooke H. Lester, 1903; Johnson, F. M. G., 1905; Simpson, J.C., 1907; Boyle, R W., 1909; Shaw, A. Norman, 1911.

3. THE DR. T. STERRY HUNT RESEARCH SCHOLARSHIP IN CHEMISTRY.—It is proposed to offer this scholarship each year to graduate students in the Faculties of Arts and Applied Science.

4. The P. S. Ross Exhibition of $100.00, founded by Mr. P. D. Ross, B.A.Sc., in memory of his late father, Mr. P. S. Ross, and given through the Ottawa Valley Graduates' Society, will be awarded annually to the candidate from the Ottawa Valley for entrance to any Faculty, who obtains the highest percentage at the June matriculation examination.

## II. SCHOLARSHIPS AND EXHIBITIONS IN ARTS.

### GENERAL REGULATIONS.

1. No student can hold more than one Exhibition or Scholarship at the same time.

2. Exhibitions and Scholarships will not necessarily be awarded to the candidates who have obtained the highest marks. An adequate standard of merit will be required.

3. If in any College Year there be not a sufficient number of candidates showing adequate merit, any one or more of the Exhibitions or Scholarships offered for competition may be given to more deserving candidates in another Year.

4. A successful candidate must, in order to retain his Scholarship or Exhibition, proceed regularly with his college course to the satisfaction of the Faculty.

5. The annual income of the Scholarships or Exhibitions will be paid in four instalments, viz.:—In October, December, February and April, about the 20th of each month.

### EXHIBITIONS AVAILABLE IN ARTS.

*The Jane Redpath Exhibition,* founded by the late Mrs. Redpath of Terrace Bank, Montreal:—value, about $90, open to both men and women.

*Ten Macdonald Scholarships and Exhibitions,* founded by Sir W. C. Macdonald, Montreal:—value $125 each.

*The Charles Alexander Scholarship* (for men students), founded by the late Charles Alexander, Esq., Montreal, for the encouragement of the study of Classics and other subjects:—value $90.

*The Major H. Mills Scholarship,* founded by bequest of the late Major Hiram Mills:—value $100.

*The Barbara Scott Scholarship,* founded by the late Miss Barbara Scott, Montreal, for the encouragement of the study of the Classical languages and literature:—value $100 to $120.

*Four Mackenzie Scholarships* for Economics and Political Science, founded in memory of the late Hon. Alexander Mackenzie:—value, $50 to $100. (For particulars see page 49.)

*One of The Rev. Samuel Massey Exhibitions,* founded by Mr. George Massey, in memory of his late father, Rev. Samuel Massey:—value $62.50.

## FIRST YEAR EXHIBITIONS IN ARTS.

### I. EXHIBITION FOR HOLDERS OF MODEL DIPLOMA.

An exhibition of $150 is offered annually in the Faculty of Arts to holders of Model diplomas obtained after a course of study in Macdonald College, under the following conditions:—

(1) Candidates must apply through the Head of the School for Teachers before May 1st.

(2) They must satisfy the entrance requirements of the Faculty of Arts and declare their intention to proceed to a First Class Academy diploma following the course prescribed by the University.

The exhibition will be awarded on the academic subjects of the examination for the Model diploma; but although the practice marks will not be taken into account directly, the opinion of the Macdonald College staff as to the general fitness of the applicant for a University course will be considered. In case there is no applicant from the graduating class in any year, applications from graduates of previous years will be entertained on their merits.

Holders of this Exhibition will be permitted to count practice teaching and post-graduate work towards the fulfilment of their agreement to teach for a period of three years in the Province of Quebec.

### II. P. S. ROSS EXHIBITION.

For particulars regarding the P. S. Ross Entrance Exhibition see page 43.

### III. UNIVERSITY ENTRANCE EXHIBITIONS.

The following Exhibitions and Scholarships* will be offered for competition in June, 1912, to candidates for admission to the First Year:—

#### (1) *Matriculation Exhibitions.*

These Exhibitions will be awarded for general proficiency on the results of the matriculation examination.

Seven, of the value of $100 each—five for those intending to take the B.A. Course and two for candidates who propose to enter on the B.Sc. Course, in Arts—are open to both men and women; and two are open to women only and conditional on residence in the Royal Victoria College, one of $200 and one of $100.

For the Matriculation Exhibitions the value attached to each subject is as follows:—

| | |
|---|---|
| Language subjects ..... | 100 Marks. |
| Mathematical subjects ..... | 100 " |
| English ..... | 75 " |
| Science subjects ..... | 50 " |

#### (2) *Advanced Exhibitions.*

These Exhibitions and Scholarships will be awarded on the result of an examination on any three of the following subjects:—

English.
Latin.
Greek.
French.
German.
Mathematics.

Provided, however, that no award will be made to a candidate who has not obtained first-class standing at the University Matriculation Examination or at an examination which is accepted as its equivalent. For scope of examination in each subject see below.

Five Exhibitions are offered, of the value of $150 each, and three Scholarships tenable for two years, of the value of $150 each per year.

* A Scholarship is tenable for *two* years; an Exhibition for *one* year.

The Scholarships shall be awarded to the three candidates (otherwise qualified) who take the highest standing in the examination, and the tenure of the Scholarship for the second year shall be contingent on the holder obtaining a first class standing in the sessional examinations of the First Year, or, in the case of those who obtain first class in an Advanced Course, a standing not lower than second class in any subject.

One or more additional Advanced Exhibitions may be awarded should the number of candiates who attain a sufficiently high standard for Scholarships be less than three.

Every candidate for a First Year Exhibition or Scholarship shall, on application for examination, sign a declaration to the effect that he intends to proceed to a degree in Arts in this University. Blank forms of application, to be obtained from the Registrar, must be filled out and returned before the first of May preceding the examination.

The subjects for the Advanced Exhibitions are of equal value.

### Requirements in each Subject.

The details of the work required in the subjects for Advanced Exhibitions (any three of which may be chosen, as stated above) are as follows:

**English.**

LANGUAGE, 1911 and 1912.—The Making of English, by Henry Bradley (Macmillan).

LITERATURE, 1911 and 1912.—Poems of the Romantic Revival (Copp, Clark Co.) pp. 83-200, with Introduction and Notes; Macaulay, Essays on Byron, Warren Hastings, Clive.

COMPOSITION.—The candidate will be required to write an essay on some subject connected with the examination.

**Latin.**

Grammar; translation at sight; prose composition.

Translation from and questions on the following texts:

1911 and 1912.—Virgil, Aeneid, Book II; Cicero, in Catilinam I and II.

**Greek.**

Grammar; translation at sight; prose composition.

Translation from and questions on the following texts:

1911 and 1912.—Homer, Iliad VI; Lucian, Charon.

**French.**

(*a*) Grammar, including syntax; (*b*) translation at sight from French into English; (*c*) translation at sight of easy English prose passages into French; (*d*) translation from the folowing texts:—

1911 and 1912.—Augier, Le Gendre de M. Poirier (Heath & Co.); DeVigny, La Canne de Jonc (Heath & Co.); Sand, La Mare au Diable (Ginn & Co.).

**German.**

(*a*) Grammar.—accidence and syntax; (*b*) translation at sight from German into English; (*c*) translation at sight into German of an easy passage of English prose; (*d*) translation and grammatical study of the following texts:

1911 and 1912:—Fouqué, Undine (Holt); Chamisso, Peter Schlemihl (Holt); Keller, Kleider machen Leute (Heath).

**Mathematics.**

GEOMETRY.—Euclid's Elements, Books IV and VI, with definitions of Book V, and easy deductions.*

ALGEBRA.—The three progressions, ratio, proportion, variation, permutations and combinations, binomial theorem, logarithms, theory of quadratic equations, as in Hall & Knight's Elementary Algebra (omitting Chapters 40-44 inclusive), or as in similar text-books.

TRIGONOMETRY.—Measurements of angles, trigonometrical ratios or functions of one angle, of two angles, and of a multiple angle, as in Lock's Elementary Trigonometry, Chapters I to XII.; Hall & Knight's Trigonometry, Chaps. I. to XII., inclusive, omitting Chap. V.; or as in similar text books.

**SECOND YEAR EXHIBITIONS IN ARTS.†**

Six Exhibitions, ranging in value from $100 to $150 each, will be offered for competition to students entering the Second Year, in September, 1911:—

---

* The text-book at present used in McGill University and also authorized for use in the schools of the Province of Quebec, is Hall & Stevens' Euclid (Macmillan & Co.). Teachers will find Godfrey & Siddons' Elementary Geometry and Hall & Stevens' School Geometry useful adjuncts as far as regards practical applications.

† Second Year Exhibitions are open to students who have passed the First Year sessional examinations, provided that not more than two sessions have elapsed since their matriculation; and also to candidates for entrance into the Second Year. The Second Year exhibition examination will, for candidates who have not previously entered the University, be regarded as a matriculation examination, *pro tanto*.

The subjects of examination are divided into two groups as follows:—

Group I.—Greek, Latin, French, German, English.

Group II.—Mathematics, Physics.

Candidates are required to offer two major subjects and one minor subject. The two major subjects must be selected from the same group, the minor subject from either group, the examination in the major subject being more extensive than that in the same subject presented as a minor subject. Two Exhibitions of $150 each and two of $100 each are offered to candidates taking their major subjects from Group I, and one Exhibition of $150 and one of $100 to candidates taking their major subjects from Group II.

The above Exhibitions are open to all undergraduates in Arts, whether they are taking the B.A. or the B.Sc. course.

Details of the requirements in each subject are given in the special announcement of the Faculty of Arts.

### THIRD YEAR SCHOLARSHIPS IN ARTS.*

The following five Scholarships, of the annual value of $150 each, will be open for competition to students entering the Third Year in September, 1911:—

One for English and another language.

One for Latin or Greek and another language† (English excepted).

One for French or German and another language † (English excepted).

Two for Mathematics and Physics.

In addition to the above Scholarships, the three following Exhibitions, of the value of $150.00 each, are also offered for competition to students entering the Third Year:—

One for Philosophy.

One for Chemistry and Physics.

One for Biology.

---

* Third Year Scholarships and Exhibitions are open to students who have passed the Second Year sessional examination, provided that not more than three sessions have elapsed since their matriculation; and also to candidates who have obtained what the Faculty may deem equivalent standing in some other university, provided that application be made before the end of the session preceding the examination. Double course students (Arts and Applied Science or Arts and Medicine) are not eligible for these Scholarships.

† The language not chosen in the first instance may be taken as the second language.

A Bursary of $25 will be awarded to that one of the holders of these three Exhibitions who is considered most deserving on entering the Fourth Year.

An Exhibition of $50, to be known as the Hannah Willard Lyman Exhibition, will also be awarded annually in the Fourth Year, to the best woman student who may have been the holder of a Third Year Exhibition in biology or chemistry or philosophy. Should there be no sufficiently deserving candidate, this Exhibition may be awarded at the beginning of the Third Year to a woman candidate who may fail to obtain one of the five regular Scholarships offered to Third Year students.

Of the two Third Year Scholarships assigned to mathematics and physics, one is open to women only, the other to men only. Should, however, no candidate be eligible for the scholarship open to men only, it may be awarded to a woman.

In the award of Third Year Scholarships, the Second Year standing of candidates, in the subjects selected, will be taken into account.

In the event of no candidate of sufficient merit presenting himself, the Scholarship assigned to any group of subjects may, at the discretion of the Faculty, be awarded in another group, whether a scholarship has been already assigned to that group or not.

*Mackenzie Exhibitions*:—

Four Exhibitions, known as the Mackenzie Exhibitions, are awarded annually in the Department of Economics and Political Science. Two of these, of the value respectively of $100 and $50, tenable for one year, are awarded on the result of a special examination, held in September, and open to students who have completed the work of the Second Year. The tenure of the Exhibitions is conditional upon the holders pursuing their studies in the honour work in economics and political science of the Third Year. The other two Exhibitions, of the value respectively of $100 and $50, are awarded on the results of the honour examination of the Third Year in economics and political science. The Exhibitions will not be awarded except on satisfactory evidence of merit: their tenure is conditional upon the holders pursuing their studies in the honour work in economics and political science of the Fourth Year.

A Fourth Year Mackenzie Exhibition may be held by a student who holds another; a Third Year Exhibition cannot.

Particulars of the work prescribed in each subject will be found in the announcement of the Faculty of Arts.

### III. PRIZES IN ARTS.

1. **The Neil Stewart Prize.**—An annual prize of $15 is open to all undergraduates and graduates of this University, and also to graduates of any other university, who are students of Theology in some college affiliated to this University. The rules which govern the award of this prize are as follows:—

(1) The candidate selected for the prize shall have passed an examination in (1) Hebrew Grammar, syntax, easy composition, pointing, and miscellaneous questions: (2) Translation from Hebrew into English, both prepared and unprepared. The Hebrew texts prescribed for the present year are as in the Ordinary Hebrew Course.

(2) Three papers will be set of three hours each:—One on pointing and translation (with lexical and grammatical notes); one on grammar and composition; and one on miscellaneous questions.

(3) Credit will be given to candidates showing a knowledge of Biblical Aramaic, and Rabbinic, provided the work done on classical Hebrew be thoroughly up to Scholarship standard. Special application should be made for a paper on these subjects.

(4) Should no candidate's work be up to the Scholarship standard the prize will be withheld, and a prize of $30 will be offered in the following year for the same.

The prize, founded by the late Rev. C. C. Stewart, M.A., and terminated by his death, was re-established by the liberality of the late Neil Stewart, Esq., of Vankleek Hill.

2. **Early English Text Society's Prize.**—This prize, the annual gift of the Early English Text Society, will be awarded for proficiency in the subjects of the language group in the English Honour curriculum of the Third and Fourth Years.

3. **New Shakespere Society's Prize.**—This prize, the annual gift of the New Shakspere Society, open to graduates and undergraduates, will be awarded for a critical knowledge of the following plays of Shakspere:—Hamlet, Macbeth, Othello, King Lear.

4. **Charles G. Coster Memorial Prize.**—This prize, of the value of $25.00, and intended as a tribute to the memory of the late Rev. Chas. G. Coster, M.A., Ph.D., Principal of the Grammar School, St. John, N.B., is offered for competition, by Mr. Colin H. Livingstone, B.A., to undergraduates (men

and women) from the Maritime Provinces (Nova Scotia, New Brunswick and Prince Edward Island). It is awarded on the decision of the Dean of the Faculty of Arts to that student in Arts from the Maritime Provinces who shows the greatest proficiency in the examinations at the end of the Session.

5. **Annie McIntosh Prize.**—The income of the sum of $425, subscribed by the pupils and friends of the late Miss Annie M. McIntosh, will be offered as a prize to students of the Royal Victoria College in such subject, or for such work, as the Faculty may determine.

For Medals and Certificates awarded in Arts, see page 56.

The names of those who have taken Honours or Certificates will be published in order of merit, with mention, in the case of students of the First and Second Years, of the schools in which their preliminary education has been received.

## IV. SCHOLARSHIPS, EXHIBITIONS AND PRIZES IN APPLIED SCIENCE

### *I.—Awarded on Result of Special Examinations.*

1. Two prizes, each of $10.00, presented by J. M. McCarthy, Esq., B.A.Sc., to students entering the Third Year, for proficiency in Levelling and Transit Work.

2. Scholarships covering four years' tuition in the Faculty of Applied Science are also awarded annually by the Grand Trunk and Canadian Pacific Railway Companies. These are open for competition to apprentices and other employees of the Companies under twenty-one years of age, as well as to minor sons of employees, and the award is made on the result of the June Matriculation Examination for entrance to Applied Science. For full particulars as to number of scholarships offered, conditions, etc., application should be made, in the case of the Grand Trunk Railway, to Mr. R. S. Logan, Assistant to the President, G.T.R. Offices, Montreal; and, in the case of the Canadian Pacific Railway, to Mr. C. H. Buell, office of the Vice-President, C.P.R. Offices, Montreal.

3. The P. S. Ross Entrance Exhibition. For particulars, see page 43.

### *II.—Awarded on results of Sessional Examinations or for special theses.*

1. A British Association Exhibition of $50.00 and a prize of $25.00, at the end of the Third Year, to the students who

obtain the highest and the second highest aggregate marks, respectively, in the sessional examinations in strength of materials and mechanics of the Third Year.

2. Three prizes of $25.00, $15.00 and $10.00, at the end of the Second Year, to the students obtaining the highest, and the second and third highest, aggregate marks, respectively, in the sessional examinations in analytic geometry, calculus and mechanics of the Second Year.

3. A Scott Exhibition of $50.00, founded by the Caledonian Society of Montreal, in commemoration of the Centenary of Sir Walter Scott, and two prizes of $25.00 and $15.00, at the end of the First Year to the students obtaining the highest, and the second and third highest aggregate marks, respectively, in the sessional examinations in the mathematics, descriptive geometry and physics of the First Year.

4. Workshop Prize.—A prize of $20.00, presented by Mr. C. J. Fleet, B.A., B.C.L., for bench and lathe work in the wood-working department, open to students of not more than two terms' standing in workshop practice.

5. A prize of $50.00, presented by Mr. James Tighe, B.A.Sc., for research work in hydraulics.

6. An exhibition offered to graduates by Mr. A. E. Childs, M.Sc., for a special research on "The flow of gas through pipes under pressure."

7. The following prizes are offered for the best summer theses:—

To the students of the Civil Engineering Course, a prize of $25, presented by E. B. Greenshields, Esq., B.A.

To the students of the Electrical Engineering Course, a prize of $25.

To the students of the Mining Engineering Course, a prize of $25 presented by Geo. E. Drummond, Esq.

To the students of the Metallurgical Course, a prize of $25, presented by Milton L. Hersey, Esq., D.Sc.

To the students of the Mechanical Engineering Course, a prize of $25, presented by the Crosby Steam Gauge and Valve Co.

Four prizes, each of the value of $25, are offered for competition to student members of the Canadian Society of Civil Engineers, for the best papers on subjects in any depart-

ment of engineering. The summer theses prepared by students of this University are available for this competition.

Three prizes, each of the value of $25, and the President's gold medal are offered for competition to student members of the Canadian Mining Institute for the best papers on mining subjects.

8. The sum of $50.00 has been voted by the Undergraduates' Society of the Faculty of Applied Science, to be given as prizes for the best papers read before the Society during the session 1911-1912.

9. Prizes or Certificates of merit are given to such students as take the highest place in the Sessional and Degree examinations. Partial students are not eligible for prizes.

For other prizes given in connection with Medals in Applied Science, see under Medals and Prizes, page 57.

*III.—Awarded at the Discretion of the Faculty.*

1. THE HON. ROBERT JONES' SCHOLARSHIP, having a value of One Hundred and Twenty-five Dollars ($125.00) per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Applied Science."

Application for this scholarship should be made through the Dean of the Faculty of Applied Science. In awarding the scholarship the standing of the student in the matriculation examination will be considered, and the scholarship will not be continued if the standing of the student at any time during his course proves to be unsatisfactory.

2. Three research and teaching fellowships of the value of $500 each, have been established in the Mining Department—one endowed in memory of the late Sir William Dawson, and two supported by Dr. James Douglas. All three fellowships are awarded annually if suitable candidates offer.

3. Dr. James Douglas, a member of the Board of Governors, has provided for ten tutorial bursaries in the Faculty of Applied Science. In assigning these bursaries account will be taken of the circumstances of the applicants as well as of their academic standing.

These bursaries are worth $100.00 per annum, and carry the obligation of giving tutorial instruction equivalent to one evening a week, to the satisfaction of the Faculty Committee. Students in the third and fourth years of Applied Science only, are eligible.

4. A Fund has been established by the Class of 1899, to be known as "The Class of 1899 Fund," for the purpose of aiding, each year, one or more students who, upon the completion of their Second Year Work, require assistance to enable them to finish their course of study. The loans from this fund made to students will be repayable after graduation. Applications should be made through the Dean.

### V. EXHIBITIONS AND PRIZES IN MEDICINE.

1. **The Final Prize.**—A prize in books (or a microscope of equivalent value) awarded for the best examination, written and oral, in the Final branches. The Holmes' medallist is not permitted to compete for this prize.

2. **The Joseph Hils Prize.**—Founded by the late Dr. Joseph Hills of Woonsocket, R.I.—A prize in books awarded to the student who obtains the highest number of marks for a special examination in materia medica and therapeutics.

3 **The Joseph Morley Drake, M.D., Prize**—Founded by the late Joseph Morley Drake, M.D.—A microscope to be awarded to the student of the third year who obtains the highest number of marks for the examinations in pathology and bacteriology.

4. **The Third Year Prize.**—A prize in books awarded for the best examination, written and oral, in the branches of the Third Year.

5. **The Second Year Prize.**—A prize in books for the best examination in all the branches of the Second Year course.

6. **The First Year Prize.**—A prize in books for the best examination in all the branches of the First Year course.

7. **The Sir William Dawson Exhibition,** given by the New York Graduates' Society—value, $60.00.

8. **The P. S. Ross Exhibition.**—For particulars see page 43.

For the Medals awarded in this Faculty, see page 58.

### VI. EXHIBITIONS AND PRIZES IN LAW.

1. An Exhibition, of the value of $50 per annum—to be known as the Alexander Morris Exhibition—has been founded in memory of the late Hon. Alexander Morris, M.A., D.C.L.,

of Toronto, Ont., and will be awarded to the student who obtains the highest standing in the Second Year.

2. Various money prizes (among the number being a prize of $15, given by the Junior Bar Association of the Province of Quebec, to the student of the final year who takes the highest standing in civil procedure), are awarded to the students of each year who obtain the highest distinction at the examinations held at the close of the session. No prize will, however, be awarded to any student unless a sufficiently high standing is attained.

For Medals in Law, see under Medals, etc., page 57.

## VII. EXHIBITIONS IN MUSIC.

Angus Scholarship:—$150.00 for three years, covering a Regular Student's course, given by Mr. R. B. Angus.

Clouston Scholarship:—$150.00 for three years, covering a Regular Student's course, given by Sir Edward Clouston, Bart.

Ross Scholarship:—$150.00 for three years, covering a Regular Student's course, given by Mr. James Ross.

Gibb Scholarship:—$50.00 for three years, given by Mr. Lachlan Gibb.

Scott Scholarship:—$100.00 for one year, given by Mr. H. C. Scott.

also the following:—

Organ:—$50.00 given by Messrs. Casavant.

Violoncello:—$50.00 given by Mr. George Hooper.

Pianoforte:—$50.00 given by Mr. C. W. Lindsay.

Pianoforte:—$25.00 per year for three years, given by Mr. Percy Gault.

Horn:—$50.00 given by Lady Drummond.

Trumpet:—$50.00 given by the Conservatorium.

## MEDALS, CERTIFICATES AND HONOURS.

### I. IN ARTS.

1. **Gold Medals** will be awarded in the B.A. Honour examinations to students who take the highest Honours of the first rank in the subjects stated below, and who shall have passed creditably the ordinary examinations for the Degree of B.A., provided they have been recommended therefor to the Corporation by the Faculty, on the report of the examiners:—

The Henry Chapman Gold Medal for Classical Languages and Literature.
The Prince of Wales Gold Medal for Mental and Moral Philosophy.
The Anne Molson Gold Medal for Mathematics and Natural Philosophy.
The Shakspere Gold Medal for English Language and Literature.
The Logan Gold Medal for Geology, Mineralogy and Palæontology.
The Major Hiram Mills Gold Medal for Biology.
The Governor-General's Gold Medal for Modern Languages and Literature.

In addition to the above, certain medals are offered annually by the Alliance Française, at the discretion of the Department of Modern Languages.

If there be no candidate for any medal, or if none of the candidates fulfil the required conditions, the medal will be withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended.

2. **Special Certificates** will be given to those candidates for B.A. who have been placed in the first class at the ordinary B.A. examination; have obtained three-fourths of the maximum marks in the aggregate of the courses proper to the Third and Fourth Years, are in the first class in not less than half of these courses, and have no third class. At this examination, no candidate who has taken exemptions can be placed in the first class unless he has obtained first class

in the examination in four of the subjects offered (each corresponding to a full course of lectures), and has no third class.

3. **Certificates** of High General Standing will be granted to those undergraduates of the first two years who have obtained three-fourths of the maximum marks in the aggregate of the studies proper to their year, are placed in the first class in not less than half the subjects, and have not more than one-third class.

4. **Graduates** who attend lectures in any subject, and pass the corresponding examinations therein, may obtain certificates of their standing, whether the course in question be Ordinary or Honour.

For Prizes in Arts, see page 50.

### II. IN APPLIED SCIENCE.

1. The Governor-General's silver medal (the gift of His Excellency The Right Honourable Earl Grey) will be awarded for graduate research work.

2. A British Association medal and prize in books are open for competition to students of the graduating class in each of the ten courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examinations. The British Association Medals and Exhibition were founded by the British Association for the Advancement of Science, in commemoration of the meeting held in Montreal in the year 1884.

3. A gold medal and three prizes of $25, offered by the Canadian Mining Institute. For further particulars see page 53.

4. Honours.—On graduation, Honours will be awarded for advanced work in professional subjects.

5. Certificates may be given to students who have passed through any of the special courses attached to the curriculum.

For Prizes in Applied Science, see page 51.

### III. IN LAW.

1. The Elizabeth Torrance Gold Medal is awarded to the student who obtains the highest marks in the final examinations, provided that his answers are, in the estimation of the Faculty, of sufficient merit to entitle him to this distinction.

For Prizes in Law, see page 54.

### IV. IN MEDICINE.

1. **The Holmes Gold Medal,** founded by the Medical Faculty in the year 1865, as a memorial of the late Andrew Holmes, Esq., M.D., LL.D., late Dean of the Faculty of Medicine, is awarded to the student of the graduating class who receives the highest aggregate number of marks in the different branches comprised in the medical curriculum.

The student who gains the Holmes' Medal has the option of exchanging it for a bronze medal and the money equivalent of the Gold Medal.

2. **The Sutherland Gold Medal,** founded in 1878 by the late Mrs. Sutherland, in memory of her late husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty, is awarded for the best examination in general and medical Chemistry, together with a creditable examination in the Primary branches. The examination is held at the end of the Third Year.

3. **The Wood Gold Medal,** founded by Casey A. Wood, M.D., is awarded to the student of the graduating class who receives the highest aggregate number of marks in the clinical branches of the Final Year.

4. **The Woodruff Gold Medal,** founded by Dr. Thomas A. Woodruff, of Chicago, is awarded to the student of the Final Year who takes the highest standing in Ophthalmology and Oto-Laryngology.

For prizes in Medicine, see page 54.

# FEES.

## GENERAL REGULATIONS.

1. Fees shall be paid to the Bursar on or before October 10th. The registration ticket must be shown to the Bursar when necessary, before the fee is paid. After October 10th an additional fee of $2.00 will be exacted of all students in default.

No fees will be refunded to partial students under any circumstances whatever.

2. Immediately after October 20th the Bursar shall send to the Deans of the several Faculties a list of the registered students who have not paid their fees, on receipt of which the Deans shall cause their names to be struck from the registers of attendance, and such students cannot be re-admitted to any class except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

Students registering after October 20th shall pay their fees at the time of registration, failing which they become subject to the provisions of Regulation 2.

## MATRICULATION FEES.

See page 16.

## FEES IN ARTS.

*(For Regulations re payment, see above).*

Sessional fee for undergraduates and conditioned students .. .. .. .. .. .. .. .. .. .. .. .. .. $61.00*
(This includes fees for laboratories, library, gymnasium, athletics and graduation.)

Fees for Partial Students.—(First and Second Years.)—$16 per session for one course† and $10 for one half-course†

---

* At the request of the students themselves and by the authority of Corporation, an additional dollar will be exacted from all undergraduates and conditioned students (men) in the Faculty of Arts, for the support of the Literary and the Undergraduates' Societies of that Faculty.

† The lectures and laboratory work, if any, in one subject in any of the four college years constitute a "course," if occupying three hours per week; a "half-course" if occupying less than three hours per week.

of lectures, including the use of the Library; $12 per session for each additional course; $8 per session for each additional half-course. In addition there will be a fee of $3 for Athletics.

Fees for Partial Students.—(Third and Fourth Years.)—$22 per session for one course† and $13 for one half-course† of lectures, including the use of the Library; $20 per session for each additional course; $11 per session for each additional half-course. In addition there will be a fee of $3 for Athletics.

Partial students taking the full curriculum in any one Year pay the same fees as undergraduates in that Year.

Graduates in Arts of this University are allowed, on payment of one-half of the usual fees, to attend all lectures in the undergraduate course, except those for which a special fee is exigible. Graduates of other universities attending full courses in affiliated theological colleges are given the like privilege.

Fees for special courses of lectures, given after 4 p.m.:—

| | |
|---|---|
| For one lecture per week during one term ..... | $ 3.00 |
| For two lectures per week during one term ..... | 4.00 |
| For one lecture per week during the session ..... | 4.00 |
| For two lectures per week during the session .. .. | 6.00 |

For more than two lectures per week regular partial student rates will be charged.

The fee for athletics and the caution money deposit are not exacted from partial students attending only the courses of lectures included in the Teachers' Syllabus.

Fees for summer classes:—

| | |
|---|---|
| For one class (Botany and Chemistry excepted) .. | $8.00 |
| For each additional class (Botany, Physics and Chemistry excepted) .. .. .. .. .. .. .. .. .. | 4.00 |
| For Physics .. .. .. .. .. .. .. .. .. .. .. .. .. | 8.00 |
| For Botany .. .. .. .. .. .. .. .. .. .. .. .. .. | 10.00 |
| (Teachers and McGill University students may attend the class in Botany on payment of half the above fee.) | |
| For Chemistry (with Laboratory Work) .. .. .. | $25.00 |

Special fees:—

Supplemental examination in any subject or any part of a subject taken at the regular date fixed by the Faculty .. .. .. .. .. .. .. .. .. .. .. $2.00

Supplemental examination, when granted at any other time than the regular date fixed by the Faculty, for each examination period ..... 5.00

All fees for supplemental examinations must be paid to the Bursar, and the receipts shown to the Dean before the examination.

Fee for the Degree of B.A. or B.Sc. (Arts) conferred in absentia (except when the candidate has been specially exempted by the Faculty) .. $20.00

**Caution Money.**—Every student is required to deposit with the Bursar the sum of $5, as caution money, to cover damage done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

## FEES IN APPLIED SCIENCE.

(*For Regulations re payment, see page* 59).

Sessional fee for the undergraduate course in Architecture .. .. .. .. .. .. .. .. .. .. .. .. .. $150.00

Sessional fee for all other undergraduate courses .. 200.00

(Students who were in attendance as undergraduates or conditioned undergraduates in this Faculty during the session 1909-1910, or previously, will be allowed to complete their several courses on payment of $100 for the undergraduate course in Architecture and $175 for any other undergraduate course).

Graduates of this Faculty taking an additional undergraduate course will pay one-half of the undergraduate fee.

Students taking the six year Double Course in Arts and Applied Science shall pay full fees in Arts for the first three years of their course and the following fees in Applied Science:—

Sessional fee for First and Second Years of double course (including Summer School) .. .. .. .. $50.00

*Sessional fee for Fourth, Fifth and Sixth Years of double course .. .. .. .. .. .. .. .. .. .. .. 200.00

* (For students in attendance during the session 1909-1910, or previously, this fee will be $175.)

The fees for partial students are:—$4.00 for library, $3.00 for athletics, and a fee at the rate of $7.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

In addition to the fees specified above, every student is required to pay a fee of $1.00 for the Undergraduates' Society in the Faculty of Applied Science, to be collected with the tuition fees at the office of the Bursar.

CAUTION MONEY.—Every student is required to deposit with the Bursar the sum of $10, as caution money, to cover damage done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

| | |
|---|---|
| Fee for the Degree of B.Sc., conferred in absentia (except when the candidate has been specially exempted by the Faculty) | $20.00 |

Fees for Summer classes (First Year).

| | |
|---|---|
| Mathematics. | |
| For one division of the subject | $8.00 |
| For each additional part | 4.00 |
| Physics | 8.00 |
| Descriptive Geometry, Freehand Drawing and Lettering | 25.00 |
| Chemistry, with laboratory work (Second Year) | 25.00 |

For regular supplemental examinations, the fee is $2.00 for each subject. It must be paid to the Bursar of the University not later that the day before the examination, and receipt for the same must be shown to the Professor in charge before the examination papers are distributed.

The fee for a special supplemental examination is $5.00.

## FEES IN MEDICINE.

(*For Regulations re payment, see page* 59).

### FIRST YEAR.

| | |
|---|---|
| Sessional fee for the Undergraduate course | $150.00 |
| Caution money (deposit)* | 10.00 |

* The caution money deposit is intended to cover breakages in the different laboratories, etc. The amount of the deposit, less deductions (if any), will be returned at the close of the Session.

SECOND YEAR.

| | |
|---|---|
| Sessional fee for the undergraduate course | $150.00 |
| Caution money (deposit)* | 10.00 |

Students who were in attendance as undergraduates or conditioned students in this Faculty during the session 1909-1910, or previously, will be allowed to complete their course on payment of fees as under:—

THIRD YEAR.

| | |
|---|---|
| Sessional fee | $125.00 |
| Caution money (deposit)* | 10.00 |
| Hospitals | 10.00 |
| Athletics | 3.00 |
| | $148.00 |
| Maternity Hospital fee (to be paid by four-year-course students only) | 6.00 |

FOURTH YEAR.

| | |
|---|---|
| Sessional fee | $125.00 |
| Caution money (deposit)* | 10.00 |
| Hospitals | 10.00 |
| Maternity Hospital fee (half amount) | 6.00 |
| Athletics | 3.00 |
| | $154.00 |
| Fee for M.D. Degree (to be paid by four-year-course students only) | $30.00 |

FIFTH YEAR.

| | |
|---|---|
| Sessional fee | $125.00 |
| Caution money (deposit)* | 10.00 |
| Hospitals | 10.00 |
| Maternity Hospital (half fee) | 6.00 |
| Athletics | 3.00 |
| Fee for the Degree of M.D., C.M.† | 30.00 |
| | $184.00 |

* The caution money deposit is intended to cover breakages in the different laboratories, etc. The amount of the deposit, less deductions (if any) will be returned at the close of the Session.

† When the degree is conferred in absentia an additional fee of twenty dollars will be exacted, unless the candidate has been specially exempted by the Faculty.

Students taking the seven year Double Course in Arts and Medicine shall pay the following fees: in the First and Second Years, full undergraduate fees in Arts; in the Third Year, full fees in Arts and $50 in Medicine; in the Fourth Year, full fees in both Arts and Medicine; in the Fifth, Sixth and Seventh Years, full fees in Medicine.

Sessional fee for students repeating a session..... $35.00

Repeating students must also pay in addition to the above, $3 for Athletics and make the usual caution money deposit of $10.

Fee for students from other colleges who have paid full fees there for courses to be taken..... $35.00

These students are also required to pay in addition $3 for Athletics, the Hospital fees exacted in the year to which they are admitted, and to make the usual caution money deposit of ten dollars.

An ad eundem fee of $10 will be charged students entering from another university in the Second, Third, Fourth or Fifth Year of the Course.

Partial Students will be admitted on payment of special fees.

Fee for Supplemental Examination..... $5.00
Fee for the regular Graduate Course (for details of courses see Medical Announcement)..... $50.00
Fee for the Course in Public Health and Diploma .. $50.00

## FEES IN DENTISTRY.

Students in Dentistry pay the following fees:

Sessional fee..... $125.00
Grounds and Athletics..... 3.00
Caution Money (Deposit)*..... 10.00
Graduation fee..... 30.00

---

* The caution money deposit is intended to cover breakages in the different laboratories, etc., and will be returned, less deductions (if any) at the close of the Session.

## FEES IN LAW.

*(For Regulations re payment, see page 59).*

| | |
|---|---|
| Registration fee | $5.00 |
| Sessional fee (including fee for athletics) for the undergraduate course | 80.00 |
| Athletics fee, payable by Partial Students | 3.00 |
| Graduation fee† | 12.50 |

(Students who were in attendance as undergraduates in this Faculty during the session 1910-1911, or previously, will be allowed to complete their course on payment of $60 per session).

Students taking the six year Double Course in Arts and Law shall pay full fees for each of the four years in Arts and full fees for each of the three years in Law.

Fees for Partial Students:—

| | |
|---|---|
| For course in Roman Law | $20.00 |
| For each of the following courses: Successions, Criminal Law, Commercial Law, Obligations, Civil Procedure | 15.00 |
| For each of the shorter courses | 10.00 |

Caution Money.—Every student is required to deposit with the Bursar the sum of $5, as caution money, to cover damage done to furniture, loss of books, etc. This amount, less deductions (if any), will be returned at the close of the session.

| | |
|---|---|
| Fee for the Degree of D.C.L. | $80.00 |

## FEES IN THE GRADUATE SCHOOL.

| | |
|---|---|
| For the course leading to the Degree of M.A. or M.Sc. | $40.00 |
| For each year of the course leading to the Degree of Ph.D. | $40.00 |
| Graduation fee for M.A. or M.Sc. | 20.00 |
| " " " " *(In absentia)* | 40.00 |
| " " Ph.D. | 30.00 |
| " " D.Sc. | 80.00 |
| " " D.Litt. | 80.00 |
| " " LL.D. (in course) | 80.00 |

† When this degree is conferred in absentia an extra fee of $20.00 will be exacted, unless the candidate has been specially exempted by the Faculty.

The examination and graduation fee is payable when the candidate presents himself for examination and is not returnable if he is unsuccessful. If, however, a candidate for the degree of M.A. or M.Sc. fails he may present himself in a subsequent year without further payment of fees. A candidate for the degree of D.Sc. or D.Litt. in case of failure may present himself in a subsequent year upon payment of an additional sum amounting to one-half of the usual fee for this degree.

Lecturers, tutors and demonstrators in this University who are proceeding to the degree of Master of Arts, Master of Science, or Doctor of Philosophy, shall be exempt from the tuition fees, but will be required to pay the fee for graduation in every case.

No fee shall be charged for the Degree of LL.D., granted "honoris causa."

### FEES IN MUSIC.

| | |
|---|---|
| Regular students, per session | $150.00 |

(This sum will also cover the fees for the diploma or degree examination at the end of each year.)

| | |
|---|---|
| Senior Partial Students, per term of 12 weeks | 35.00 |
| Junior Partial Students, per term of 12 weeks | 28.00 |
| Examination and graduation fee for Mus. Doc. | $80.00 |

This fee is payable in two instalments. The first $40.00 must be paid when the candidate submits his Exercise, and is not returnable if that Exercise is not approved, but he may in a subsequent year submit another Exercise upon payment of one-half of the above amount. The second instalment of $40.00 must be paid before the subsequent examination, and is not returnable should the candidate be unsuccessful, but he may in a subsequent year present himself again for examination upon payment of one-half the above amount.

Information regarding fees to be paid by students for class work and by occasional students, as well as regarding fees for certificates and examinations, when these are not covered by the regular fee, will be found in the special syllabus issued by the Conservatorium of Music.

## MISCELLANEOUS FEES.

| | |
|---|---|
| Elocution (optional) | $5.00 |
| Library (optional for students in Medicine; included in sessional fee in the case of all others) | 4.00 |
| Gymnasium (optional for undergraduates in Law and Medicine, and also for partial students in all Faculties; included in sessional fee in the case of all others) | 2.50 |
| Fee for the McGill Union (optional and payable to the Bursar, or the Secretary of the Union) | 10.00 |
| Certificate of standing, as to year of Course | 1.00 |
| Certificate of standing, accompanied by a statement of classification in the several subjects of examination | 2.00 |

*All applications for certificates must be addressed to the Registrar of the University, accompanied by the required fee.*

No certificates are given for attendance on lectures unless the corresponding examinations have been passed.

# CONDUCT AND ATHLETICS.

## MORALS AND DISCIPLINE.

1. University discipline shall be exercised by the several Faculties, and by the Committee on Morals and Discipline, subject in the cases hereinafter mentioned to revision or confirmation by Corporation.

2. Subject to the provisions of the following section, each Faculty shall be entitled to exercise University discipline over its own students.

3. All cases of discipline involving the interests of more than one Faculty, or of the University in general, shall be dealt with by a Standing Committee of Corporation, to be known as the Committee on Morals and Discipline, which shall consist of the Vice-Principal, the Deans of the several Faculties, one member of the Board of Governors and another member of Corporation who must be outside of the University staff. The two members last named shall be appointed annually at the regular meeting of the Corporation in February. The Committee shall have power to add to their number the President and Vice-President of the Students' Council in cases in which that body has taken action and made a report.

4. All such cases of discipline as are referred to in subsection 3 shall be reported to the Principal, or, in his absence, to the Vice-Principal, or, in the absence of both, to the senior Dean present in the City. If the Principal, or, as the case may be, the Vice-Principal or the Dean, deems action necessary, the matter shall be reported to the Committee on Morals and Discipline.

5. When sentence of expulsion or of suspension for more than three months has been pronounced by a Faculty, or by the Committee on Morals and Discipline, the Corporation may entertain an appeal.

6. "University discipline" shall mean any appropriate method of exercising authority over students, and shall, but

without prejudice to the foregoing generality, include the power of expulsion, suspension, disqualifying from competing for scholarships, exhibitions, medals, prizes or honours, imposing fines, not exceeding $25, on any student, levying assessments for damage done, reporting to parents or guardians and admonition.

7. Any student found guilty of immoral, dishonest, disorderly or improper conduct, or of wrongfully causing damage to person or property shall be liable to University discipline.

8. If on an occasion of general disorder on the part of a year, class, or group of students, damage be done to University property, or acts committed meriting discipline, and the individuals who have done such damage, or committed such acts, have not been discovered, an assessment to cover the damage may be laid, or a fine imposed, or both, on all the members of such year, class or group.

9. While in college, or in the college grounds, students shall conduct themselves in the same orderly manner as in the class-rooms. Smoking is prohibited in the college buildings, except in such rooms, if any, as may be set apart for that purpose. Any professor observing improper conduct on the part of a student in the college buildings or grounds may admonish him, and, if necessary, report him to the Dean of the Faculty in which he is enrolled. Without, as well as within the walls of the college, every student is required to maintain a good moral character.

## COLLEGE GROUNDS AND ATHLETICS.

The management of the college grounds and of out-door athletics and sports is under the control of the Athletics Committee of Corporation.

This Committee is responsible for the general maintenance of all University grounds and retains the ultimate authority and power of supervision in all matters affecting athletics in the University.

The following extracts are made from the rules and regulations of the Committee, for the guidance of members of the University and the several athletic clubs and associations which are from time to time permitted to use the grounds:

During the summer season the Sherbrooke Street gates shall be closed between 10 p.m. and 6 a.m. every day, and the University and McTavish Street gates between 6 p.m. and 7 a.m. on week days and the whole day on Sunday.

Such persons as are entitled to use the grounds shall be provided with tickets renewable each year. Those entitled to tickets are the members of the University and prominent benefactors, and the families of Governors and Professors.

The several Clubs may be permitted to issue special tickets, entitling the holders to admission to the grounds for the purpose of viewing matches, or for other special occasions of public interest.

All students desirous of taking part in football matches, or otherwise engaging in violent athletic contests, must pass a medical examination, to be held under the direction of the Medical Director of Physical Education. A complete record of all such examinations shall be kept by the Director or some other officer appointed to this duty. The managers and captains of Clubs, or other responsible executive officers, are required to insist upon the strict observance of the rule in regard to medical examination, and all the rules and regulations of the Committee which concern them.

All Clubs must submit their regulations, rules, and by-laws, and any changes in the same, for the approval of the Committee. They must make application for the use of such portions of the grounds as they require, and for any special privileges.

Clubs must not engage in matches with outside clubs except with the approval of the Committee.

The Athletic Association must submit its programme for each year for the approval of the Committee.

All students in good standing who are taking a course of study held to be sufficient by a special Committee of the Faculty in which they are enrolled will be allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, as shown by the monthly reports furnished to the Dean of each Faculty by the several Professors and Lecturers, shall be considered as sufficient ground to disqualify a student for engaging in athletic contests.

All students of the University are required to pay a fee of three dollars ($3.00) for the use of the grounds. (This is included in the sessional fee paid by undergraduates.) The amount so paid is handed over to the Executive of the Students' Council (less about $800, which is expended in the

upkeep of the grounds in connection with athletics), and is by this body expended in the interest of College athletics.

The amount derived as grounds and athletics fees from the students of the Royal Victoria College is placed at the disposal of the Committee in charge of the grounds, for expenditure in the interests of women-students.

The annual sports of the University are held on the third Friday of October in each year. The day is observed as a holiday.

### UNIVERSITY ATHLETIC ASSOCIATION.

All matters connected with athletics at the University are under the immediate supervision of the University Athletic Association, which, in turn, is responsible to the "Athletics Committee of Corporation." The executive of the Athletic Association consists of the presidents of the various clubs of the Association, twelve in number.

The Track Club is entrusted with the regulation and encouragement of "Track and Field Athletics;" the management of the Inter-class sports and of the annual University sports.

The Rugby Football Club is represented by a senior and intermediate team in the Intercollegiate Union, and a junior team in the O.R.F.U. In addition to these championship matches, a series of inter-class matches is played annually for the "Wood Cup."

The Skating and Hockey Club has a well established reputation. The Hockey Club is represented by senior and intermediate teams in the Intercollegiate League. As in football, a series of inter-class games is played annually, in this case for the "Capper Trophy."

The Association Football Club, the Basket-Ball Club, the Boxing Club, the Cricket Club, the Harriers' Club, the Lawn Tennis Club, the Wrestling Club, the Fencing Club, and the Swimming Club, are the remaining clubs under the Association. Most of them conduct inter-class matches, and have a senior team, which represents the University in outside matches. The Association Football, Basket Ball, Boxing and Wrestling Clubs, Tennis Club and Swimming Clubs are represented in Intercollegiate Unions.

### GYMNASIA.

#### (1) *The University Gymnasium.*

Medical Director of Physical Education:—F. W. Harvey, B.A., M.D.

Instructor:—W. J. Jacomb.

The classes, which are open to men students of all Faculties, will meet at the University Gymnasium at hours to suit, as far as possible, the convenience of students.

Instruction, apart from the regular classes, is given in boxing, wrestling, fencing, jiujitsu and swimming, for each of which a special fee is required.

Special attention is given to the application of exercise in treating cases of weakness or deformity.

The Wicksteed Silver and Bronze Medals for Physical Culture (the gift of Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students who have had instruction in the gymnasium for two sessions; the silver medal to the former, the bronze medal to the latter.

The award of these medals is made by judges appointed by the Corporation of the University.

Every competitor for the silver medal is required to lodge with the judges, before the examination, a certificate of good standing in the graduating class, signed by the Dean or Registrar of the Faculty to which he belongs, and the medal will not be awarded to any student who may fail in his examination for the Degree.

### (2) *The Royal Victoria College Gymnasium.*

Medical Director of Physical Education:—F. W. Harvey, B.A., M.D.

Physical Director:—E. M. Cartwright, Graduate and former Assistant of the Chelsea College of Physical Education, London, England.

Classes in educational gymnastics are conducted for all undergraduate students in the gymnasium of the Royal Victoria College (see page 125). All students on entering the University are required to pass a physical examination (see regulation on page 32), and are also required to pass satisfactory physical tests before taking part in any of the outdoor or indoor physical exercises organised by the Physical Department, whether educational or recreational.

Undergraduate students of the First and Second Years are required to attend two educational gymnastic classes per week. Undergraduate students of the Third Year are required to attend one educational gymnastic class per week. Undergraduate students of the Fourth Year wishing to enter educational gymnastic classes are expected to attend regularly. Undergraduate students entering the Royal Victoria College in their Third or Fourth Year are required to attend the edu-

cautional gymnastic classes twice a week, for one session, unless excused for reasons deemed sufficient by the Department.

*Strathcona Prizes.*—Three first prizes of $8, $10, and $12, and three second prizes of $5, $6, $9, are open to students for competition in the Second, Third and Fourth Years respectively. Two prizes of $5 are offered for competition to the students of the First Year; one for students who have taken part in educational gymnastics at school, and the other for students who have had no previous physical training.

All competitions will be held under the following regulations:—

1. Competitors will be awarded 50% of the marks on the work of the session.

2. No prize shall be awarded unless the judges consider the work up to a standard of 75%.

3. The prizes shall not be awarded in the Second, Third and Fourth Years should the winner fail in obtaining her full academic standing. The prizes in the First Year shall not be awarded if the winners fail in more than one subject at the Sessional Examinations.

4. Competitors will be judged on the work taught in the Gymnasium during the session, the Physical Director arranging all details concerning the competition. A programme of the competitions will be posted not later than March 1st.

5. Judges for these competitions shall be appointed yearly by the Corporation, on the recommendation of the Department.

## ACADEMIC DRESS.

Professors, lecturers and students are required to wear academic dress at lectures, except in those cases in which a dispensation shall have been granted by the Faculty.

*Undergraduates* shall wear a plain black stuff gown, not falling below the knee, with round sleeve cut above elbow.

*Bachelor of Arts.*—Black stuff gown, falling below knee, with full sleeve cut to elbow and terminating in a point (similar to that of the Cambridge B.A.); hood, black silk, lined with pale blue silk and edged with white fur.

*Bachelor of Science.*—The same gown as Bachelors of Arts; hood, black silk, lined with yellow silk and edged with white fur.

*Bachelor of Civil Law.*—The same gown as Bachelors of Arts hood, black silk, lined with French grey silk and edged with white fur.

*Bachelor of Architecture.*—The same gown as Bachelors of Arts; hood, black silk, lined with white silk and edged with white fur.

*Bachelor of Music.*—The same gown as Bachelors of Arts; hood, black silk, lined with pale mauve silk, and edged with white fur.

*Master of Arts.*—Black gown of stuff or silk, falling below knee, with long sleeve with semi-circular cut at the bottom (similar to that of the Cambridge M.A.); hood, black silk, lined with pale blue silk.

*Master of Science.*—The same gown as Masters of Arts; hood, black silk, lined with yellow silk.

*Doctor of Medicine.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with dark blue silk.

*Doctor in Dental Science.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with pink silk.

*Doctor of Laws.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with white silk.

*Doctor of Literature.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale blue silk.

*Doctor of Science.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with yellow silk.

*Doctor of Music.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale mauve silk.

*Doctor of Philosophy.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale green silk.

*Doctor of Civil Law.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with French grey silk.

Doctors of Laws, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music shall be entitled to wear for full dress a robe of scarlet cloth (similar in pattern to that of the Cambridge LL.D.) faced with silk of the same colour as the lining of their respective hoods.

All hoods shall be in pattern similar to that of the Masters of Arts of Cambridge University.

Undergraduates and graduates shall wear the ordinary black trencher with black tassel, but Doctors of Laws, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music shall wear for full dress a black velvet hat with gold cord, similar to that worn by Doctors of Laws of Cambridge University.

Samples of the colours of the linings of all hoods shall be kept for inspection in the office of the Registrar.

# THE UNIVERSITY BUILDINGS.

**The Centre Building.**—This is the oldest building of the group. It contains the lecture rooms of the Faculties of Arts and Law, as well as the botanical and zoological laboratories and the offices of the administration.

**The Conservatorium of Music** is situated at the corner of University and Sherbrooke Streets, adjoining the University grounds.

**The New Medical Building.**—A magnificent up-to-date medical building has been erected at a cost of over $600,000 at the corner of Pine Avenue and University Street.

Of the central part of this building the greater portion is set aside for the accommodation of the library, the whole of the front of the second and third floors and a portion of the ground floor being used. On the third floor is a large students' reading room, 76 x 24 feet, exceptionally well lighted and capable of accommodating 100 readers. On this floor also is the staff journal room and the private offices of the librarian. The second floor is occupied by the stack room, with accommodation for sixty thousand volumes, also by individual research and reading rooms. A portion of the ground floor is set aside for storage.

Besides the library, the central portion of the building contains also three lecture rooms, the private museum and offices of the professor of anatomy and the administration office, research and preparation rooms of the museum staff.

To the rear of the central building is the museum, probably the most complete structure of its kind in connection with a medical school on this continent. It is built in the form of a cross, three storeys high, splendidly lighted by ample window space on three sides and by a large central light well. Each floor is furnished with free stacks and wall cases made of steel and plate glass, thoroughly dust-proof. The anatomical collections are placed on the third floor, while the first and second floors are devoted to pathology. In both the anatomical and pathological sections of the museum the specimens have been prepared and classified with a view to their being made use of in the teaching of these important subjects.

The east wing gives accommodation for the departments of anatomy, pathology and bacteriology, the dental department, the faculty rooms and administration offices, the mortuary and preparation room for dissecting material, as well as ample space for students' lockers and lavatories and a large, well lighted students' reading and smoking room.

On the ground floor of this wing will be found the mortuary, in which there is provision for the storage of 80 subjects, and leading from this the preparation room. On this floor also is the large locker room containing 400 steel lockers, the students' lavatory and the students' reading and smoking room, this latter being provided with newspapers and magazines and being under the control of the students themselves.

On the first floor is the Faculty room and a series of rooms for administrative work. The northern half of this floor is occupied by the dental department, comprising offices, lecture room and modern, well equipped laboratories.

The second floor is wholly occupied by the department of pathology and bacteriology. In the southern half is the professor's private laboratory and office, four research and preparation rooms, a small demonstration theatre and an assistant's room. The northern half is occupied by the students' laboratory, a room 76 x 40 feet, splendidly lighted and equipped with all the necessary apparatus for modern laboratory instruction.

The third floor is taken up wholly by the department of anatomy and contains besides private offices and research rooms for the professor and staff, a large dissecting room, 88 x 40 feet, excellently lighted and fully equipped. There is also on this floor a large lavatory and students' locker room.

Between the second and third floors is a mezzanine floor which is devoted to the department of parasitology. Here, besides the private offices and research rooms of the professor, there are four fully equipped laboratories for advanced work.

The west wing contains a lage assembly hall. The remaining space will be occupied by the departments of pharmacology and hygiene.

**The Old Medical Building.**—Here are housed the departments of physiology, chemistry and histology.

**The Macdonald Engineering Building.**—This replaces the building destroyed by fire in April, 1907. It is designed to provide accommodation for six hundred students. The

Departments of Civil Engineering, Architecture and Transportation are permanently provided for in this building, while the Departments of Electrical and Mechanical Engineering are given temporary accommodation until such time as independent buildings can be provided for their growing numbers, but this temporary accommodation is for the present quite ample. The ground floor is given up to the Civil Engineering, Geodetic, Electrical and Mechanical Engineering Laboratories and is for the most part 23 feet in height. Mechanical and Electrical Engineering Laboratories and the Workshops also occupy the three lower floors of the Workman Building. The centre portion of the second floor is used for purposes of administration (Faculty room, offices, library, etc.). The front parts of the second and third floors are occupied by eight class rooms which contain 470 sittings, while the upper floors both of the Engineering Building and the Workman Building are devoted to drafting rooms containing over 500 tables.

The building throughout is of the most approved fire-proof construction, not only in the matter of materials, but in arrangement as well, the several floors being divided by fire walls and fire doors into separate sections. It has been erected at a cost of about half a million of dollars.

**The Macdonald Chemistry and Mining Building.**—In addition to the large lecture theatre which seats about 250 students there are here four lecture rooms for smaller classes, and a number of offices. There are also three large general chemical laboratories (each with a floor space of about 2,400 square feet and accommodation for 200 students at a time), large laboratories for assaying, ore dressing and metallurgy, with a very complete equipment, and a number of smaller rooms and laboratories for special purposes, including research work. The reference library contains about 1,400 volumes.

**The Macdonald Physics Building.**—This building is five storeys in height, each floor having an area of 8,000 square feet. Besides a lecture theatre and its apparatus rooms, the building includes an elementary laboratory nearly 60 feet square, large special laboratories, a range of rooms for optical work and photography, separate rooms for private work, and two large laboratories arranged for research, provided with solid piers and the usual standard instruments. There are also a lecture room for mathematical physics, a special physical library and

convenient workshops. The equipment of the Physics Building is exceedingly valuable and complete.

**The Redpath Museum.**—The Museum occupies a commanding position at the upper end of the campus, and besides its central hall and other rooms devoted to the collections, it contains a large lecture theatre, class rooms and work rooms. The collections in botany, palæontology, geology and zoology are very full and admirably arranged for teaching purposes.

**The University Library.**—This building is a fine example of the Romanesque style of Architecture. The general reading room is 110 feet long, 44 wide and 34 high, and will seat 150 readers. The book stack, four and five storeys in height, has a working capacity of 250,000 volumes. For other information regarding the Library, see page 115.

**The Observatory** is well equipped for instruction in the use of meteorological instruments and in astronomical work.

**The Power Station.**—The new Power Station supplies heat to the following buildings:—New Medical Building, Old Medical Building, Engineering and Workman Buildings, Chemistry & Mining Building, and the Physics Building. It also furnishes current for light and power to these buildings and to the Royal Victoria College, the Union and Strathcona Hall.

The equipment of the station includes boilers of 1,000 H.P. nominal capacity, provision being made for future extension, and engines and generators of 600 kilowatt capacity. The coal bunkers hold 500 tons.

The heating distribution is partly by tunnel and partly by underground conduit, the farthest building served being at a distance of 700 feet from the station. Electric cables are placed underground in vitrified clay conduits.

**The Royal Victoria College.**—This is a residential College for the women students of McGill University. It is situated on Sherbrooke Street in close proximity to the University buildings and laboratories. On the ground floor are the offices of the administration, lecture rooms, students' common room, and a spacious dining hall. On the first floor are other lecture rooms, the library, reading room and a handsome assembly hall. The second and third floors are given up entirely to rooms for resident students. These rooms are handsomely furnished, as indeed is the whole building. The rates for board and lodging are very reasonable. Full information on all points can be obtained from the Warden. See also page 123.

**The McGill Union** stands at the corner of Sherbrooke and Victoria Streets, within two minutes' walk of the College gates. The building measures 93 feet by 71 feet and consists of three storeys and a basement. On the main floor are the dining and luncheon rooms; on the second floor, billiard rooms, a news hall, a reading room and library, a study and a lounging gallery (88 ft. by 21 ft.). The large hall is situated in the top storey. It measures 88 ft. by 45 ft. and has a seating capacity of 400. There are also smaller rooms for society meetings, etc. In the basement are baths, locker rooms and an exercise room (24 ft. by 38 ft.). The Union is the social centre of the University, the common meeting ground for the students of all Faculties. It is intended to promote a broad and true university spirit.

**Strathcona Hall** is the home of the Young Men's Christian Association of the University. The building is 55 feet by 110 feet, and is five storeys in height. The three upper storeys are arranged to afford residential accommodation for about sixty students. On the ground floor are the Secretary's office, sitting rooms, cloak rooms and a hall capable of seating 350 persons. The second floor contains a large reading room, a large game room, and five small rooms for the use of clubs and societies.

# LABORATORIES, MUSEUMS, AND WORKSHOPS.

## 1. LABORATORIES.

### ASSAYING LABORATORY.

See Mining and Metallurgical Laboratories.

### ASTRONOMICAL OBSERVATORY.

See Geodetic Laboratory.

### BOTANICAL LABORATORIES.

The Botanical Laboratories occupy the upper floor of the central part of the Arts Building.

The laboratory for general morphology provides table accommodation for twenty students, and is equipped with all the necessary appliances for the practical study of plants, either fresh or dry.

In connection with this laboratory, a large collection of dried plants is maintained, from which material is drawn for practical work.

The laboratories for special morphology at present afford accommodation for twelve students. Each table is provided with a complete outfit of instruments and reagents. Provision is also made for accurate micrometic work and for the production of accurate drawings by means of the camera lucida and Leitz's drawing instrument. More special instruments, including polariscope, spectroscope and photographic apparatus, afford opportunity for detailed studies in these several directions. A supply of physiological apparatus permits the demonstration, through actual exprimentation, of some of the more prominent plant activities as expressed in movement, transpiration, respiration, geotropism, movement of the nutrient fluids, rate of growth, etc.

### CEMENT LABORATORY.

The equipment of the laboratory renders it possible to carry out complete tests of the strength and properties of cements, mortars, concretes, concrete beams, etc.

Besides being equipped with the most up-to-date testing machines and accessory apparatus the laboratory is also fitted with copper-lined cisterns in which briquettes may be submerged for any required time, and with capacious slated operating tables, bins and tin boxes for keeping cement dry for any period.

A large amount of work is done each year by the Third Year students, in investigating the specific gravity, fineness, setting properties, constancy of volume, and the tensile, compressive and transverse strengths of cement, both neat and with sand.

### CHEMICAL LABORATORIES.

*(In the Chemistry and Mining Building.)*

The three principal laboratories have each a floor-space of about 2,400 square feet, and together have accommodation for nearly two hundred students working at a time. They are lighted on three sides,

and have ample hood space. One is intended for beginners, and the other for more advanced work, more particularly in qualitative and quantitative analysis. In connection with each of the main laboratories is a balance-room, equipped with balances by several of the best makers.

Physical Chemistry is provided for in a special laboratory, nearly 30 by 40 feet, lighted from the north, and supplied with electricity, steam, vacuum pumps, etc. On the same floor there is an optical room, devoted more particularly to crystallographic work.

Immediately adjoining the laboratory of physical chemistry is the photographic department, supplied with two dark rooms, arranged on the maze system, and provided with the necessary appliances for all ordinary photographic work.

There are also laboratories for gas analysis and electrolytic analysis and another room has lately been equipped with electric furnaces and other appliances for electro-chemical work.

The organic department comprises a laboratory for preparations and research, a combustion room for analysis, a dark room for polariscope and saccharimeter work, and a lecture room. This laboratory is fitted with all the necessary apparatus for organic research. There is a large supply of the necessary organic chemicals, which are supplied free of charge to students engaged in routine or research work in this department.

The laboratory for determinative mineralogy has places for 28 students, and is supplied with abundant materials for practical work. The mineralogical department is also provided with suitable machinery, run by electricity, for the cutting and polishing of minerals and rocks.

## ELECTRICAL LABORATORIES.

The several electrical laboratories are the Standardizing Laboratory, the Fourth Year Dynamo Laboratory, the Third Year Dynamo Laboratory, the High Tension Laboratory, the Photometer Room and the Oscillograph Room. Power is supplied in the form of direct current from a number of independent sources and converted when alternating current is required by motor generator sets or by inverted rotaries. The equipment of the laboratories includes, besides the usual current-limiting and controlling devices, an ample supply of voltage, current, power, speed, etc., and metering instruments, and practically all of the principal types of commutating, synchronous and induction machinery.

## GEODETIC LABORATORY.

The equipment of this laboratory consists of:—

(1) Linear instruments: A Rogers comparator and standard bar for investigating standards of length; a fifty-foot standard and comparator for standardizing steel bands, chains, tapes, rods, etc.; a Munro-Rogers linear dividing engine.

(2) Circular instruments: A Rogers' circular comparator; four level triers.

(3) Time: An astronomical clock and clock circuit in connection with the observatory clocks; chronometers running on mean and sidereal time; chronograph.

(4) Gravity: A portable Bessel's reversible pendulum apparatus with special pendulum clock and telescopic apparatus for observing coincidences of beats.

(5) A water gauge apparatus for testing aneroid barometers.

The laboratory and clock rooms are constructed with double walls and enclosed air spaces, and their heating is controlled by special thermostats, so that the temperature within may be brought to, and held at, any desired degree.

**Astronomical Observatory.**

The observatory equipment for the purpose of instruction in practical Astronomy consists of:—

A Bamberg prismatic transit with zenith attachment; five astronomical transits for meridian observations; a Troughton & Simms zenith telescope; sidereal and mean time clocks and chronometers; Chronograph and electrical circuits by which observations and clock comparisons within or without the observatory may be made.

## HYDRAULIC LABORATORY.

In this laboratory the student studies experimentally the laws governing the flow of liquids through orifices, pipes, weirs, etc., and also carries out experiments on the efficiency of various forms of water motors running under different conditions as regards head and supply.

## MECHANICAL ENGINEERING LABORATORY.

This laboratory is used in connection with the courses in mechanical engineering subjects and is equipped with belt testing machines, lubricant testers, etc., besides apparatus for testing the efficiency of hoisting appliances, gearing governors, fans and blowers, as well as for studying the problems connected with the balancing of reciprocating engines.

## METALLURGICAL AND ASSAYING LABORATORIES.

These consist of a large furnace room, of 2,200 sq. feet, for metallurgical operations, a furnace room for assaying, of 1,300 sq. feet, a balance room, small chemical laboratory, and parts of other rooms, which are utilized for pyrometric and photo-microscopic work.

The furnace room adjoins the milling and ore dressing room and ores which have been crushed and dressed can easily be conveyed into the furnace room for roasting, smelting or leaching treatments.

In addition to the comparatively large scale plant, apparatus is provided to enable the students to study in detail the more important metallurgical operations, using quantities of ore or metallurgical products of usually not more than a few pounds in weight. With such appliances the work of the student can be of a more individual character than is generally possible with large scale plants, and the reactions which occur can be more easily and exactly studied.

Small blast-furnaces, lined with brick, have been constructed, and used successfully for smelting small quantities of copper and Cobalt ores. A Roots' blower has been provided for the blast furnaces, and connections for supplying forced draft have been made to the gas and reverberatory furnaces. Leaching operations on a small scale are conducted in stoppered bottles which can be agitated by machinery.

Provision has recently been made for electric furnace work

A powerful hydraulic press and a piece of apparatus for compressing gases by hydraulic power are available for experiments that have to be conducted under great pressure.

A small drop-testing machine has been constructed for investigating the mechanical properties of metals.

The Assaying Laboratory is equipped with a soft coal assay furnace, and with a number of muffle and crucible furnaces fired with coke; the large gas muffle furnace in the furnace room is also available for assaying purposes, and there is a small muffle furnace and a crucible furnace fired by gasoline.

Adjoining the assaying laboratory is the balance room and a small laboratory for chemical work.

In another room are a number of electrical pyrometers of both the Le Chatelier and Callendar type, and a micro-photographic outfit for recording the microscopic structure of metals and alloys. A polishing machine, worked by power has been installed to prepare the specimens for examination.

## MINING AND ORE-DRESSING LABORATORIES.

The Department of Mining Engineering has one large laboratory in two storeys for ore-dressing, and a number of rooms of moderate size equipped for use as special laboratories, offices, lecture room, dark room, machine shop, etc. The effective floor space is about 8,500 square feet, in addition to which the departmental store rooms, ore bins, etc., have an area of 1,000 feet.

The ore-dressing laboratory proper has about 5,000 feet floor space and is 25 feet high in the centre.

It is equipped with two classes of apparatus. First, a large number of pieces especially designed for individual work on a small scale. Many of these are for elementary investigations and demonstrations of a theoretical nature, others are working reproductions on a reduced scale of typical ore-dressing and milling machines; secondly, a complete plant of standard apparatus for ore crushing, sampling, milling, concentrating and for coal washing. The apparatus has been chosen from the best designs in common use and whenever possible each important class of ore-dressing machinery is represented by two or more different types, in order that comparisons may be made. Each machine is so arranged that it may be used, tested and cleaned up independently, but when expedient, a number of machines can be connected by automatic conveyors and thus complete working plants of various kinds can be improvised, each of sufficient capacity to test large lots of material under approximately working conditions.

In addition to the main laboratory there are excellent facilities for advanced and research work—including a thoroughly equipped analytic and assay laboratory and a photographic room. The department possesses an excellent Fuess petrographical microscope, a good set of weighing and measuring devices, and a number of pieces of special apparatus for advanced theoretical investigation.

## OSCILLOGRAPH LABORATORY.

This laboratory contains a Blondel Triple oscillograph, with an oscillatory period of about $\frac{1}{600}$th of a second.

The oscillograph is complete with photographic attachments. The room is supplied with alternating current from the A. C. Lab. and is so arranged that the wave of any machine may be studied. The room is also fitted for photographic work.

## PETROGRAPHICAL LABORATORY.

The Petrographical Laboratory, containing the chief rock collections of the University, is situated in the Chemistry and Mining building, and is arranged for the use of students in the Mining Course as well as for those desirous of taking advanced work, such as Graduate students and those taking Honour Courses in Arts. It is provided with a number of petrographical miscropes by Seibert, Crouch, and Fuess, as well as with models, sets of thin sections, electromagnets, heavy solutions, etc., for petrographical work.

A collection of typical rocks has been especially prepared for the use of students and a complete equipment for cutting, grinding, and polishing rocks, has been installed, which runs by electric power and gives excellent facilities for the preparation of thin sections for microscopic use.

For advanced work and pretrographical investigation Dr. Adams' extensive private collection of rocks and thin sections is available for purposes of study and comparison.

## THE MACDONALD PHYSICAL LABORATORIES.

The equipment of the Macdonald Physical Laboratories comprises: (1) apparatus for illustrating lectures; (2) simple forms of the principal instruments for use by the students in practical work; (3) various types of all important instruments for exact measurements, to be used in connection with special work and research.

The Magnetic Laboratory contains magnetic instruments and variometers of different patterns, and also a duplicate of the B. A. Electric-dynamometer. The laboratory on the opposite side of the basement contains a Lorenz apparatus for the absolute measurement of resistance, constructed under the supervision of Prof. Viriamu Jones.

There is a Constant Temperature Room, surrounded by double walls, which contains a Standard Rieffler Clock, and is fitted for comparator work.

The main Electrical Laboratory is a room 60 feet by 40, and is fitted with a number of brick piers, which come up through the floor. and rest on independent foundations, in addition to the usual slate shelves round the walls. This room contains a large number of electrometers, galvanometers, potentiometers, and other testing instruments of various patterns, and adapted for different uses. It connects with a smaller room at the side in which are kept the resistance boxes and standards, and also the capacity standards. Three small research laboratories adjoin the electrical laboratory.

On the first floor of the building there is the Heat Laboratory, devoted to advanced work in thermometry, pyrometry and calorimetry and also to such electrical work as involves the use of thermostats and the measurement of the effects of temperature.

The third floor contains the Elementary Laboratory, a room 60 feet square, devoted to elementary practical work in heat, sound, light, electricity and magnetism. There is a demonstrators' room adjoining, and an optical annex devoted to experiments with lenses, galvanometers, etc., which require a darkened room. On the other side of the building there is a spectroscopic room, containing a six-inch

Rowland grating, with mountings by Brashear, and other large spectrometers and polarimeters; also a series of smaller optical rooms, including a photometric room, especially fitted for Arc photometry, and a dark room for photographic work.

A special elementary laboratory for the First Year Medical and Arts students has been fitted up in the attic.

## LABORATORY OF PHYSIOLOGY.

The department of Physiology occupies a large portion of the top floor of the Laboratory Wing of the old Medical Building. The space allotted to this department provides for a large students' laboratory, 45 by 58 feet, and smaller preparation rooms. The main laboratory is furnished with enough benches, apparatus, etc., to allow of 80 students working at one time.

## THE PSYCHOLOGICAL LABORATORY.

The Psychological Laboratory occupies rooms in the Arts Building. In the main library are found the chief periodicals and works of reference on all branches of the sciences. Besides this, there has been added during the past year a considerable amount of apparatus so that the laboratory is now equipped for original research work in experimental psychology, physiological psychology and applied psychology. This same equipment also serves to train students in the methods of experimental psychology and furnishes material for demonstration in lectures.

## STANDARDIZING LABORATORY.

The Standardizing Laboratory is well equipped with ammeters, voltmeters, Wattmeters, Wheatstone and Conductivity Bridges, testers for measuring the magnetic qualities of materials, standard cells, regulators, transformers and a large number of secondary Weston standard instruments in both alternating and direct currents.

## STRENGTH OF MATERIALS LABORATORIES.

These laboratories are equipped with apparatus for the determination of the physical properties of the materials of construction and for illustrating the fundamental laws of the strength of materials. The equipment includes a large variety of machines for testing the tensile, compressive and transverse strength of the several materials of construction, such as beams, girders, wire ropes, belts, etc.

## THERMODYNAMIC LABORATORIES.

The steam laboratory is furnished with an experimental steam engine of 120 I.H.P., specially designed for investigating the behavior of steam under various conditions. The cylinders are 6½ inches, 9 inches, 13 inches and 18 inches in diameter, and the stroke of all the pistons is 15 inches. The cylinders can be so connected as to allow of working as a simple, compound, triple, or quadruple expansion engine, either condensing or non-condensing, and with any desired rate of expansion. The jackets are so fitted as to permit of measuring independently the water condensed in the cover, barrel, or bottom jacket

of each cylinder, and the engine can be worked with any desired initial pressure up to 200 lbs. per square inch. The measurements of heat are made by means of large tanks, which receive the cooling water and the condensed steam. There is an independent surface condenser and air pump. Two hydraulic absorption brakes and an alternative friction brake serve to measure the mechanical power developed.

The laboratory also contains a number of other engines of different makes, air compressors, air brake and steam pumps, besides gas, gasoline and oil engines, and a large variety of boilers with the necessary tanks, weighing machines and apparatus for carrying out evaporative tests.

### ZOOLOGICAL LABORATORIES.

The Zoological Department occupies the whole of the uppermost floor of the east wing of the Arts Building and the larger portion of the floor immediately below.

It consists of:—

(*a*) A large laboratory affording accommodation for a class of 100 students.

(*b*) A smaller laboratory capable of seating about 18 students.

(*c*) Three smaller laboratories fitted up for purposes of research.

Dissecting trays, simple and compound microscopes, reasonable quantities of the ordinary reagents and of glass are provided by the department, but students provide themselves with razors for cutting sections.

The Department is provided with four large tanks and a number of smaller ones in order to maintain a supply of fresh specimens throughout the winter.

The laboratories are well provided with thermostats, microtomes, apparatus for microphotographic work and other instruments required for advanced research. There is also a library attached to the department.

## 2. MUSEUMS.

### ANATOMICAL MUSEUM.

DIRECTOR:—PROFESSOR F. J. SHEPHERD.

The anatomical museum occupies the greater part of the third floor in the central part of the new Medical Building. The large number of specimens (many of them exceedingly rare) have been prepared and classified mainly with a view to being used for teaching purposes.

### MUSEUM OF HYGIENE.

DIRECTOR:—PROF. T. A. STARKEY.

The Museum has been established from the interest accruing through the endowment of the Chair of Hygiene by Lord Strathcona and Mount Royal in 1893.

With a view to exhibiting not only specimens of the best and most approved types of appliances in each particular branch of Public

Health, but also examples of types which are to be avoided on hygienic principles, the material in the Museum has been re-arranged. In order to facilitate study and reference, the specimens have been classified upon a decimal system under the following sections:—

1. *Disinfection.*—Including disinfecting apparatus, disinfectants, and antiseptics.

2. *Lighting and Heating.*—This section includes types of all known methods of heating and ventilation.

3. *Water.*—Showing underground water and supplies drawn from it; methods of purification on large and small scales, including domestic filtration; exhibits of all the common modes of pollution of water supplies.

4. *Buildings.*—Effects of ground moisture on dwellings; building material of all kinds; and measures to be taken against dampness and foul air.

5. *Soil.*—Various kinds of soils; relation between soil and dampness; permeability of soils to gas and water; composition of soils.

6. *Air.*—Including ventilation, climate and meteorology, with apparatus illustrative of each class.

7. *Drainage and Refuse Disposal.*—The section includes every description of sanitary appliance used in building, drainage and ultimate disposal of refuse, both liquid and solid. The section also includes types of faulty methods.

8. *Foodstuffs and Clothing.*—Adulterations and modes of transmission of disease.—Materials and their value for clothing.

9. *Vital Statistics.*—Administration, etc.

10. *Bacteriology and Pathology relating to Public Health.*—Including specimens and slides of all the common micro-organisms, pathogenic and non-pathogenic; specimens of pathological conditions met with in meats, etc.

In addition to the regular Museum Exhibit there is a collection of over 1,000 lantern slides illustrative of phases of hygiene. The slides have been so arranged as to be available for demonstrations as hand specimens. These slides, as well as all the specimens in the Museum, are card catalogued, and a projecting lantern is available for their demonstration

A complete descriptive catalogue containing a large amount of condensed information with reference to the exhibits, has been published, and may be obtained at the office of the Medical Registrar.

## PATHOLOGICAL MUSEUM.

PROF. J. G. ADAMI, DIRECTOR.
MAUDE E. ABBOTT, B.A., M.D., CURATOR.
E. L. JUDAH, PREPARATOR AND OSTEOLOGIST.

Since the organization of the Medical Faculty the Pathological Museum has been one of its most cherished objects. Some specimens still remain upon its shelves donated by the founders of the College (notably a unique case of Cor. Biatrium Triloculare, reported by Dr. Andrew Holmes in 1823), and for the last fifty years the rich pathological material furnished by the Montreal General Hospital has been collected here. Many specimens are also now yearly received from the

Royal Victoria Hospital, and the Faculty is also indebted to many medical men throughout Canada and the United States for important contributions.

The fire of 1907 did severe damage to the Museum and its contents, but, fortunately, through the efforts of the Curator and Staff and the active assistance of a large body of students, much that is of great value was saved.

The singularly rich collection of disturbances of the heart and vascular system, including Dr. Osler's series of cases of acute endocarditis, is almost intact, as are also the collection of diseases of the respiratory, urinary, nervous and male genital systems, and of the spleen and ductless glands.

To restore the loss thus sustained generous gifts have been received from several sources, of which first and foremost must be mentioned a collection of more than 200 specimens illustrating the different forms of injury and repair of the main bones by gun-shot wounds, all admirably mounted, from the Surgeon-General of the United States and the Army Medical Museum at Washington, also other comparative, osteological and morbid anatomical specimens from the same source—an equal amount and of almost equal value. The Museum is also indebted to Prof. J. Orth, of Berlin, for some valuable duplicates of specimens from the great Virchow Museum in Berlin, as again to various museums connected with the great London hospitals, among which St. Bartholomew's deserves particular mention. With these and other gifts promised the Museum, this department should rapidly be restored, not merely for teaching purposes, but to its position as the most important pathological museum on this Continent.

It is now housed in the new Medical Building, occupying the main portion of the first and second floors of the central part.

## THE PETER REDPATH MUSEUM.

HONORARY CURATOR:—PROF. ARTHUR WILLEY, D.Sc., F.R.S.

The large and valuable collections in botany, zoology, mineralogy and geology are arranged in such a manner as to facilitate the work in these departments.

The general arrangement is as follows:

1. The Botanical Room on the ground floor contains the Herbarium, consisting of 50,000 specimens of Canadian and exotic plants and collections illustrating structural and economic botany.

2. On the first floor is a room over the entrance hall, in which are cases containing archæological and ethnological objects, including collections from the Queen Charlotte Islands, from Egypt, and from South Equatorial West Africa.

3. This room opens into the great Museum Hall, on each side of which are alcoves with upright and table cases containing the collection in Palæontology arranged primarily to illustrate the successive geological systems, and subordinately to this, in the order of zoological and botanical classification, so as to enable the student to see the general order of life in successive periods, and to trace any particular group through its geological history.

4. At the extreme end of the Hall are placed the collections of minerals and rocks, arranged in such manner as to facilitate their

systematic study. In the centre of the Hall are economic collections and large casts and models.

5. In the upper storey or gallery of the great Hall are placed the zoological collections; the invertebrate animals in table cases in regular series, beginning with the lower forms; the vertebrate animals in upright cases, in similar order. THE PHILIP CARPENTER COLLECTION of shells is especially noteworthy for its arrangement and completeness.

Papers or memoirs relating to certain type specimens in the collections can be obtained from the Assistant Curator. Students have access to this Museum, in connection with their attendance on the classes in Arts in the subjects above named, and also by tickets which can be obtained on application. Classes of pupils from schools can be admitted on certain days under regulations which may be learned from the Professors or from the Registrar of the University.

## 3. WORKSHOPS.

The Workshops, erected on the Thomas Workman Endowment, have a total floor area of more than 20,000 square feet.

*Equipment.*—The Carpenter Shop and the Pattern Shop contain thirty-eight carpenters' and pattern-makers' benches complete with the necessary sets of hand tools, twenty-two wood-turning lathes with their turning tools, a large pattern-makers' lathe for faceplate work, one circular saw bench, a jig saw, a band saw, two wood trimmers, a surface planer, a thickness planer, a mortising machine, a saw-sharpener, and one universal wood-working machine.

The Smith Shop is provided with sixteen Sturtevant forges which are power-driven and are connected with an exhaust fan. There is a power hammer, and the necessary equipment of anvils, swage blocks, sets, flatteners and other tools. Provision is made for instruction in soldering and brazing.

The Foundry has benches, tools and apparatus for bench and floor moulding and core-making, and is able to accommodate twenty students. A gas-fired brass melting furnace, a cupola for melting iron, and the necessary core-ovens and core-benches give facilities for undertaking iron foundry work in green and dry sand, and for brass moulding. The shop is served by a hand travelling crane of one ton capacity.

The Machine Shop has twelve 18-inch engine lathes, one 18-in. turret lathe fitted for stud and screw making, one 27-inch engine lathe, one 72-inch surfacing lathe, one brass-finishing lathe, one 30-inch vertical drilling machine with compound table, one universal milling machine with vertical milling attachment and dividing headstock, one planer capable of taking work up to 24″ x 24″ x 5 ft., one 9-inch slotting machine, one 16-inch shaper, one universal grinding machine, centering machine, a cutter grinder, a tool grinder, and a buffing and emery grinding machine. There are vise benches for eighteen students, with the necessary hand-tools, and a marking-off table. The tool-room contains a full equipment of drills, reamers, milling cutters, and accessories, gauges, callipers, and other measuring instruments.

All the machinery in the workshops is driven electrically by motors taking power from the generating station in the Macdonald Building.

# FACULTY OF ARTS.

THE SESSION 1911-1912 WILL OPEN ON MONDAY, OCTOBER 2ND, 1911.

PARTICULARS REGARDING DATES FOR REGISTRATION ARE GIVEN ON PAGE 36.

## 1. REGULATIONS FOR THE DEGREE OF B.A.

After passing the matriculation examination, an undergraduate, in order to obtain the Degree of B.A. or B.Sc., is required to attend regularly the appointed courses of lectures for four years. (Undergraduates are arranged in Years, from First to Fourth, according to their academic standing.)

The following are the regulations for advancement to the Second, Third and Fourth Years of the undergraduate course and are subject to the condition that a student will not be allowed to continue a subject of the preceding year in which he has not made good his standing, except in the case of compulsory subjects of the Second Year.

**Advancement to the Second Year.**—A student who has failed to complete one of the ordinary courses of the First Year may enter the Second Year without special permission of the Faculty.

A student who has failed to complete two of the ordinary courses of the First Year will be permitted to enter the Second Year but only on the condition that an average of 50% has been obtained in the other subjects of the First Year Course.

**Advancement to the Third Year.**—A student may be allowed to proceed to the Third Year with one subject uncompleted, if that subject belongs to the Second Year.

**Advancement to the Fourth Year.**—A student may be allowed to proceed to the Fourth Year with one subject uncompleted, if that subject belongs to the Third Year.

**Repeating Year.**—By special permission of the Faculty, a student who is required to repeat his year may on application in writing:—

(a) Be exempted from attending lectures and passing examinations in the subjects in which he has already passed.

(b) Be permitted to take, in addition to the subjects in which he has failed, one of the subjects of the following year of his course.

N.B.—The choice of subjects must involve no conflict of hours as printed in the time-table.

## I. ORDINARY COURSE FOR THE DEGREE OF B.A.

### First Year.

**Greek** *or* **Latin.**
**English and History.**
**Mathematics, (Algebra, Geometry, Trigonometry).**
**Latin,** (if not already taken) *or* **Greek** (if not already taken) *or* **French,** *or* **German,** *or* **Spanish.**
**Physics.**

German may be taken instead of trigonometry by students who intend to read for Modern Language or English Honours. This option will, however, be granted only on the recommendation of the Departments concerned.

French cannot be taken as a qualifying option in the First Year, except by students who have passed the matriculation examination in this subject.

An additional language may be taken as an extra subject in the first two years, if application be made to, and permission be obtained from the Faculty at the beginning of the session. Credit will be given for it on application.

With a view to the encouragement of higher work, advanced courses will be provided in all subjects, as far as practicable. Permission to take an advanced course is granted by the Professor with the consent of the B.A. Advisory Committee.

Students taking the work of advanced courses may be excused from the work of the corresponding ordinary courses on the recommendation of the Professor. No exemptions from other subjects will be granted to students in advanced courses.

First Year students are under the immediate direction of an Advisory Committee, consisting of all the members of the staff who are engaged in their instruction. A system of supplementary tutorial teaching is now in operation in this Year.

## Second Year.

**English Composition.**
**Latin** *or* **Greek.**
**and** *three* **of the following:**
**Greek** (if not already taken), *or* **Latin** (if not already taken).
**English.**
**French.**
**German.**
**Semitic Languages.**
**Psychology and Logic.**
**Economics and History.**
**Mathematics.**
**Elementary Biology (Botany and Zoology).**
**Chemistry.**
**Physics** (only for students taking the advanced course in mathematics).

Advanced courses will be offered in the Second Year, as in the First.

## Third and Fourth Years.

The subjects of the Third and Fourth Years are arranged in the following divisions:—

| Language and Literature. | History, Philosophy and Law. | Science. |
|---|---|---|
| **English.** | **Philosophy.** | **Mathematics.** |
| **Latin.** | **History.** | **Mechanics and Astronomy.** |
| **Greek.** | **Economics.** | **Physics:** |
| **Sanskrit.** | **Political Science.** | **Sound, Light, Heat** (full course). |
| **Comparative Philology** (half course). | **Education.** | **Electricity and Magnetism** (full course). |
| **French.** | **Constitutional Law.** | **Chemistry.** |
| **German.** | **Roman Law.** | **Geology.** |
| **Italian** (in alternate years). | | **Zoology.** |
| **Semitic Languages.** | | **Botany.** |
| | | ***Physiology.** |
| | | ***Anatomy.** |

[Courses in certain Military subjects (of which Military History must be one) may be taken as a half-course (44 lectures) in either the Third or Fourth Year.]

---

* These courses in the Faculty of Medicine are accepted as the equivalent of ordinary courses in the Faculty of Arts, in the case of double-course students in Arts and Medicine, but not otherwise.

From the above divisions six courses are to be selected by each student in the Third and Fourth Years, three in each year. Each will be studied in lecture courses extending over not more than four hours per week, with collateral reading, and, in the case of the science subjects, laboratory work. One subject chosen in the Third Year *must* be continued by every student in his Fourth Year; two subjects *may* be continued if application to that effect be granted by the Faculty or the Advisory Committee of the Faculty. Of the whole six courses, one *must,* and three *may* be chosen by all candidates from the list of subjects included under the head of Science, except when chemistry or biology has been selected as an option in the Second Year, in which case no science subject need be taken.

In addition to the six courses, a course of one hour a week in English composition must be taken by every candidate for the ordinary B.A. degree in the Third and Fourth Years, and also by honour students in English.

### 2. Honour Courses.

Honour courses are offered in all the principal subjects of the ordinary course. Students who wish to graduate with honours are strongly recommended to take the advanced courses in these subjects in the First and Second Years, where such are provided.

## COURSES FOR THE DEGREE OF B. Sc. (ARTS).

### ORDINARY COURSE.

The ordinary B.Sc. course in Arts has been arranged to give students a thorough training, suitable for those wishing to study pure science as a preliminary to entering a business or profession or to teaching science in schools, or simply as part of a general scientific education. The ordinary course, therefore, involves the study of several sciences up to a moderately high university standard and does not include a highly detailed specialised study of any one science, such as is necessary before scientific research work or university teaching can be profitably undertaken.

Students wishing to specialise with a view to research work and university teaching should take an Honour B.Sc. course. The First Year curriculum, however, is the same for those taking either the pass or the Honour Degree.

### First Year.

(1). **English.**
(2). **German (Beginners).**
(3). **Mathematics.**
(4). **Physics, and practical work.**
(5). **Chemistry, and practical work.**

### Second, Third and Fourth Years.

At the beginning of the Second Year, students may elect to take either an ordinary or an Honour course. Each student electing to take an ordinary course will be required to select three subjects from the following list and to take the theoretical and practical ordinary Degree courses provided in each of them for each of the three years. In addition, he must take English Composition in his Second Year unless exempted by the Professor of English:—

(1) Mathematics, (2) Physics, (3) Chemistry, (4) Botany, (5) Zoology, (6) Geology with Mineralogy.

A half course in Education may be taken by students for the ordinary B.Sc. Degree, in each of the Third and Fourth Years, as an option for one of the science subjects prescribed above.

Ordinary B.Sc. students who obtain 75% of the total marks during the three years will be awarded a first class. Extra courses in additional subjects may be taken only on the recommendation of the B.Sc. Committee.

#### HONOUR COURSES.

A student proposing to read for an Honour course must select one principal subject from the following list, namely, Mathematics, Physics, Chemistry, and must satisfy the department concerned of his qualifications to proceed with the study of it.* He will be required to take the lectures and practical work provided for Honour students in that subject during each of the three years, and, in addition, such other courses on allied subjects as shall be directed by the Professor of the principal subject. All students reading for Honours will be required to take a course in scientific German during their Second Year.

---

* Honour courses in other sciences may be arranged on application to the Dean who will communicate with the Advisory Committee.

The Honour courses include a detailed study of the higher branches of the principal subject in all its aspects, including the methods of research work, both practical and theoretical, and an Honour course in all cases will involve a greater total amount of work than the total amount in an ordinary course, although the ordinary course involves a study of three subjects. Students, therefore, should seek advice and exercise due caution before electing to take an Honour course.

## DOUBLE COURSES.

### 1. ARTS AND APPLIED SCIENCE.

Students who wish to obtain the Degrees of B.A. and B.Sc. (Applied Science) in six years will spend the first three years entirely in the Faculty of Arts, and the second three altogether in the Faculty of Applied Science. The subjects which they are required to take each year in the Faculty of Arts are as follows:—

#### First Year.

The curriculum as laid down for the B.A. Degree in this year, except that a modern language *must* be taken. It is recommended that Advanced Mathematics be taken instead of the ordinary course in this subject.

#### Second Year.

1. English Composition.
2. Latin.
3. Mathematics (Dynamics, Statics, Hydrostatics and Spherical Trigonometry).
4. French or German.
5. The modern language not selected under No. 4 (if studied in the First Year), *or* English *or* Economics and History.

#### Third Year.

1. English Composition.
2. Physics.
3. Any two of the following:—
   English, Latin, French, German, Philosophy, History, Economics (if taken in the Second Year), Political Science.

### 2. ARTS AND MEDICINE.

Students who wish to obtain the Degree of B.A. or B.Sc. (Arts) and M.D., in seven years, will take three years in the

Faculty of Arts and during the remaining four years will work altogether in the Faculty of Medicine. The courses which these students are required to take in the Faculty of Arts are as follows:—

### First Year.

The curriculum as laid down for the B.A. degree in this year, except that a modern language *must* be taken.

### Second Year.

1. **English Composition.**
2. **Greek or Latin** (the language taken in the First Year).
3. **French or German** (the language taken in the First Year).
4. **Chemistry** (Arts).
5. **Biology** (Medicine).

### Third Year.

1. **English Composition.**
2. **Anatomy.**
3. **Political Science.**
4. **English Literature.**
5. Additional Subject (optional):—
   **Organic Chemistry Laboratory.**

#### 3. ARTS AND LAW.

Undergraduates who desire to qualify for the degrees of B.A. and B.C.L. in six years shall include French among the subjects studied in each of the first two years of their course in Arts.

The work to be taken up during the next two years in Arts shall be as follows:—

### Third Year.

1. **French.**
2. **Political Science.**
3. **One other of the courses of the Arts curriculum,** which shall be selected from those under the heading "Science" in every case in which the Second Year Course has not included either Chemistry or Biology.
4. Either one or two hours weekly in **English Composition.***

---

* NOTE.—Students are recommended to distribute their English work over two years.

### Fourth Year.

1. **Economics.**
2. **Constitutional Law and History.†**
3. **Roman Law.**
4. One hour weekly in **English Composition,** if only one has been taken in the Third Year.

The remaining two years will be spent wholly in the Faculty of Law.

In the case of students who propose to study Law, but are not subject to the statutory requirement of office attendance during the three years of their Law course, the Faculty may, on special application, in individual cases, make such arrangements as to permit of the completion of the double course in five years.

#### 4. ARTS AND THEOLOGY.

Students who are pursuing a double course in Arts and Divinity (six years at least) will take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts, less a half course in each of these years, or a whole course in either.

---

Details of the work done in this Faculty, as well as full information regarding examinations, honour courses and double courses, are given in the Faculty announcement, copies of which will be sent on application.

---

† NOTE.—The half course in Constitutional History being given in alternate years only, students shall take it in their Third Year when it is offered in that year.

# FACULTY OF APPLIED SCIENCE

THE SESSION 1911-1912 WILL OPEN ON MONDAY, OCTOBER 2ND, 1911.

PARTICULARS REGARDING DATES FOR REGISTRATION ARE GIVEN ON PAGE 36.

## I. COURSES.

The instruction in this Faculty is designed to afford a thorough training of a practical, as well as a theoretical nature, in the following branches of Applied Science:—

I.—ARCHITECTURE.
II.—CHEMISTRY.
III.—CHEMICAL ENGINEERING.
IV.—CIVIL ENGINEERING AND SURVEYING.
V.—ELECTRICAL ENGINEERING.
VI.—MECHANICAL ENGINEERING.
VII.—METALLURGICAL ENGINEERING.
VIII.—METALLURGY.
IX.—MINING ENGINEERING.
X.—RAILWAYS.

## II. OUTLINE OF COURSES.

The work prescribed for the first two years is the same in all courses, except in Practical Chemistry and in that leading to the Degree of Bachelor of Architecture.

The subjects of instruction in these years for all courses, except those above-named, are as follows:—

### First Year.

**Algebra.**
**Descriptive Geometry.**
**English.**
**Freehand Drawing.**
**Geometry.**
**Mechanical Drawing.**
**Mechanics.**
**Physics.**
**Physical Laboratory.**
**Shopwork.**
**Surveying Field Work.**
**Trigonometry.**

### Second Year.

| | |
|---|---|
| Analytic Geometry. | Mechanical Drawing. |
| Calculus. | Mechanics. |
| Chemistry. | Mechanics of Machines. |
| Chemical Laboratory. | Physics. |
| Graphical Statics. | Physical Laboratory. |
| Mapping | Workshop. |
| Materials of Construction. | Surveying. |

The instruction in the Third and Fourth Years is of a more or less special character, dependent on the Department in which the student intends to graduate.

The regular work of each session in Applied Science will end about the first of May, at the close of the sessional examinations. The summer work will commence as soon as practicable thereafter, and will be continued for six weeks (see Reg. 2, below).

### III. SUMMER WORK.

1. All undergraduates entering the Second Year (excepting those taking the Practical Chemistry Course [Course II.] and the Metallurgy Course [Course VIII.]), students in the Civil and Mining Engineering and Transportation (Railways) courses entering the Third Year, and students in the Civil Engineering course entering the Fourth Year, are required to attend the Surveying School, which is held each year for field work in Surveying and Geodesy. This school will commence in 1911 on Monday, September 4th, and will last four weeks.

2. Undergraduates in the Mechanical, Electrical, Chemical and Metallurgical Engineering courses, and commencing with 1912, those in the Chemistry and Metallurgy courses also, are required to attend a summer session of four weeks between the Second and Third Years. The work to be done in the first two of these courses is as follows:—Mechanical Drawing (machine design and machine drawing), 10 hours per week; Physics and Physical Laboratory Work, 11 hours per week; Shopwork (smith shop and foundry), 11 hours per week. Undergraduates in Metallurgical Engineering will take courses in qualitative and quantitative chemical analysis, and those in Chemistry will take fire assaying.

In 1912, and thereafter, this summer work will be done during the month of September.

3. Undergraduates in the Mining and Metallurgical Courses are required to attend the Summer School in Mining,

held between the Third and Fourth Years (four to six weeks of field-work). The school is held in May and June.

4. During the summer vacation following the close of each session, all students entering the Third and Fourth Years are advised to prepare an essay on a subject specified by the Faculty, or make a report on some practical work in course of construction. The marks given for these essays are added to the results of the sessional examinations, but no credit will be given for any essay handed in later than ten days after the opening of the session.

## LABORATORIES AND WORKSHOPS.

As it is the aim of the University to make the teaching in Applied Science as practical as possible, a great deal depends on the equipment of the several laboratories and workshops which are necessarily connected with a properly equipped school of engineering. A large part of the student's time is therefore spent in acquiring a practical knowledge of his profession in the laboratories and workshops of the different buildings. These are commodious and thoroughly adapted for the purposes of teaching.

For descriptions of laboratories see page—

The course in *Shopwork* is intended to afford some preparation for that study of workshop practice on a commercial scale which every engineer has to carry out for himself. With this end in view, the student works in the various shops of the department (the Carpenter and Pattern Shop, the Smith Shop, the Foundry and the Machine Shop), and completes in each a series of practical exercises. He thus obtains some knowledge of the nature and properties of the various materials he employs; he receives systematic instruction in the use and care of the more important hand and machine tools; and he acquires some manual skill. The instruction thus obtained must, however, be continued and supplemented. *For this purpose students are expected to spend the greater portion of each long vacation in gaining practical experience in engineering workshops outside the University.*

The work shops are described on page 89.

---

Full details regarding the courses given in the several departments of this Faculty will be found in the Faculty announcement, which will be sent on application to the Registrar of the University.

# FACULTY OF LAW.

LECTURES IN THIS FACULTY FOR THE SESSION 1911-1912 WILL COMMENCE FOR SECOND AND THIRD YEAR STUDENTS ON THURSDAY, SEPTEMBER 7TH, 1911, AND FOR THOSE ENTERING THE UNIVERSITY ON MONDAY, OCTOBER 2ND.

STUDENTS MAY REGISTER AT ANY TIME DURING THE WEEK PRECEDING THE COMMENCEMENT OF LECTURES.

## THE COURSE OF STUDY.

The curriculum extends over three years. It includes lectures upon all the branches of the law administered in the Province of Quebec, and also upon Roman law, legal history, and the constitutional law of England, and of the Dominion. Its primary design is to afford a comprehensive legal education for students who intend to practise at the Bar of the Province. In all the courses the attention of students is directed to the sources of the law, and to its historical development.

The subjects studied in the different years are as follows:—

### First Year.

Constitutional Law of Canada.
Criminal Law (Introductory Course).
History of Quebec Law.
Public and Private International Law (Introductory Course).
Law of Persons.
Obligations (First and Second Years, alternately).
Pleading and Practice.
Real Property Law.
Roman Law.

### Second and Third Years.

(Alternately).

Agency and Partnership.
Civil Procedure.
Commercial Law (two courses).
Corporations and Joint Stock Companies.
Criminal Law.
Law of Evidence.
Marriage Covenants and Minor Contracts.
Obligations.
Public and Private International Law.
Real Property Law.
Successions, Gifts and Substitutions.

During the three years the Civil Code, the Criminal Code, and the Code of Civil Procedure will be covered, and lectures will also be given upon such subjects as bills of exchange, merchant shipping and banking, which are regulated mainly by special statutes.

The Faculty desires to impress upon English students the great importance of obtaining a familiar knowledge of French. In the practice of the profession in this Province it is indispensable that a lawyer shall be able to write and speak French. The Faculty is determined to exact a high standard in this subject, and have passed a new regulation to secure this end (see page 19). Moot Courts are held from time to time in order to afford practice in the presentation of legal arguments.

Those students who are able to take the B.A. course before entering upon their legal studies are strongly recommended to do so. Those for whom this is impossible are advised to take the first two years in the Faculty of Arts.

Further particulars are given in the Faculty Announcement.

# FACULTY OF MEDICINE.

THE EIGHTIETH SESSION OF THIS FACULTY WILL OPEN ON TUESDAY, OCTOBER 3RD, 1911.

THE INTRODUCTORY LECTURE WILL BE GIVEN ON MONDAY, THE 2ND.

PARTICULARS REGARDING DATES FOR REGISTRATION ARE GIVEN ON PAGE 36.

## I. PROVINCIAL REGISTRATION.

Intending students are reminded that a degree in Medicine does not always give a right to practise. Each Province in Canada has special regulations in this connection. In all of them a standard of general education is insisted on as a preliminary. It is, therefore, necessary for a person to register with the Medical Council of the Province in which he intends to practise, before entering upon the study of Medicine proper. A certificate of such registration will exempt the holder from any further examination for entrance to the University.

The Registrars of the Medical Councils in the several Provinces, from whom full particulars regarding admission to study can be obtained, are as follows:—

QUEBEC.—Dr. Joseph Gauvreau, 55 St. François Xavier St., Montreal, and Dr. C. R. Paquin, Quebec.

ONTARIO.—Dr. J. L. Bray, 81 Isabella St., Toronto.

NEW BRUNSWICK.—Dr. Stewart Skinner, St. John.

NOVA SCOTIA.—Dr. A. W. H. Lindsay, 241 Pleasant St., Halifax.

PRINCE EDWARD ISLAND.—Dr. S. R. Jenkins, Charlottetown.

MANITOBA.—Dr. J. S. Gray, 358 Hargrave St., Winnipeg.

ALBERTA.—Dr. J. D. Lafferty, Calgary, Alta.

SASKATCHEWAN.—Dr. G. A. Charlton, Regina, Sask.

BRITISH COLUMBIA.—Dr. C. J. Fagan, Victoria.

The Registrar of the Medical Council in Newfoundland is Dr. H. Rendell, St. John's.

## II. COURSE FOR DEGREE OF M.D. C.M.

The Pass and Honour examinations at the close of each Session are arranged as follows:—

### First Year.

Examinations in **Biology** (including **Embryology,**) **Anatomy, Histology, Medical Physics, General Chemistry, and Practical Chemistry.**

### Second Year.

Examinations in **Anatomy, Organic and Biological Chemistry, Physiology, Pharmacy and Histology.**

### Third Year.

Examinations in **Pharmacology, Physiology, Physiological Chemistry, Bacteriology, General Pathology, Clinical Chemistry, Clinical Medicine, Clinical Surgery.**

### Fourth Year.

Examinations in **Medicine, Surgery, Obstetrics, Pharmacology and Therapeutics, Medical and Surgical Anatomy, Mental Diseases, Medical Jurisprudence.**

### Fifth Year.*

Examinations in **Medicine, Surgery, Gynaecology, Clinical Medicine, Clinical Surgery, Obstetrics, Ophthalmology, Oto-Laryngology, Hygiene.**

---

* The arrangement of subjects of examination in the Fifth Year is only tentative, and may be changed before the work in this Year is actually begun by the Five-Year-course students.

## III. CLINICAL INSTRUCTION.

Few Medical Schools are able to offer such excellent facilities for clinical instruction as the Medical Faculty of McGill University. This is so, because of the extensive field afforded for such instruction in the Montreal General and the Royal Victoria Hospitals, both of which have a continental reputation.

Clinics are held regularly in all subjects in both Hospitals, and tutorial instruction is given in the wards, out-patient rooms and laboratories. Besides this, every facility is afforded in the Montreal Maternity Hospital for acquiring a practical knowledge of the various obstetric manipulations and the management and after treatment of cases.

---

Full particulars regarding the character of the clinical instruction given in this Faculty, with detailed descriptions of the Hospitals, together with all information as to courses, text-books, etc., are given in the Medical Calendar, which will be sent on application.

# THE COURSE IN DENTISTRY.

THE SESSION 1911-1912 WILL OPEN ON TUESDAY, OCTOBER 3RD, 1911. FOR PARTICULARS AS TO DATES FOR REGISTRATION SEE PAGE 36.

The course in Dentistry extends over four sessions of eight months each and leads to the degree of D.D.S. The lectures during the first two years will be given, and the laboratory and other practical work done, at the Medical College. The practical work of the last two years which has special reference to Dentistry proper, will be carried on chiefly at the Dental College, special courses of lectures being delivered at the McGill Medical College.

### MATRICULATION.

Students in Dentistry must pass the matriculation examination required of students in Medicine, for particulars of which see page 18. Those who intend to practise in the Province of Quebec must pass the matriculation examination of the Dental Association, if they do not hold a degree in Arts or Medicine from a recognized British or Canadian University. A certificate of having passed this examination will be accepted as a full equivalent for the matriculation examination of this University.

The fee for the Dental Association examination is $20.00, and is payable to the Secretary, Dr. Eudore Dubeau, Cor. Sherbrooke St. E. and St. Denis St., Montreal, from whom all further information can be obtained.

### FEES.

See page 64.

### III. ADMISSION TO PRACTICE.

In accordance with the provisions of the Dental Act, candidates intending to practise in the Province of Quebec, must sign indentures, before a Notary Public, with a licentiate of Dental Surgery in active practice in the Province, four years before being admitted to the profession. He should, therefore, register with the Dental Board at the beginning of his College course.

The requirements for admission to study and practice in the other provinces of the Dominion (British Columbia excepted) will be learned by corresponding with the Secretary of the Dominion Dental Association.

### IV. REQUIREMENTS FOR THE DEGREE.

The Degree of Doctor in Dental Science (D.D.S.) will be conferred only on candidates who (1) have attained the full age of twenty-one years, (2) are of good moral character, (3) have attended for four regular sessions, (4) have paid all the required fees, and (5) have passed the prescribed examinations.

### V. COURSE OF STUDY.

FIRST YEAR:—As for medical students, see page 104.

SECOND YEAR:—Anatomy and Practical Anatomy (course completed at Christmas), Physiology, Practical Physiology, Organic and Biological Chemistry, Histology, Pharmacy, Pharmacology, Operative Dental Technique, Prosthetic Technique and Dental Anatomy.

THIRD AND FOURTH YEARS:—General Pathology, Bacteriology, Operative and Mechanical Dentistry, Crown and Bridge-Work, Practical work in Infirmary, Dental Pathology, Materia Medica, Orthodontia, and Dental Surgery.

# DEPARTMENT OF MUSIC.

## LOCAL EXAMINATIONS.

Public Local Examinations are now held yearly at various centres throughout the Dominion by examiners sent out by the University.

These Examinations may be looked upon as preparatory to the Examinations for Diplomas and Degrees in Music granted by the University. There are in most of the subjects five grades, and certificates gained in the higher grades will exempt the candidate from certain portions of the Examinations for a Diploma or Degree.

## DIPLOMA OF LICENTIATE IN MUSIC.

Candidates for this diploma may elect to be examined either in:—

Theoretical subjects and composition.....(Class I)
Practical subjects as performers.....(Class II)
Both theory and practice as teachers.....(Class III)

The candidate must pass three examinations.

*First Examination*:—

(a) Rudiments of music, including sight reading and ear tests.
(b) Harmony in four parts up to, and including, dominant 9th (a practical test will be substituted for performers).
(c) Counterpoint in two parts (practical test substituted for performers).
(d) Chief subject of study.

The possession of a Grade I certificate of the Local Theoretical Examinations will exempt candidates in Class I from this examination. In Class II, exemption may be claimed if the candidate has passed Grade I (Practical) and Grade II or Grade III (Theoretical) of the Local Examinations.

In Class III, candidates must hold Grade I (Theoretical) and Grade II (Practical) certificates in order to claim exemption.

In the second and third examinations, between which a year must elapse, the requirements for Classes I and III are, on general lines, similar to those for the First and Second Mus. Bac. Examinations respectively. In the case of Class II, practical tests are substituted for many of the theoretical tests. Candidates in Class III will, in the Final Examination, have to pass in "The Art of Teaching Music," which will be partly *viva voce* and partly paper work.

In both the Licentiate and Mus. Bac. Examinations, considerable latitude is allowed in the choice of a second practical study. Total exemption from examination in it will be allowed if the candidate possesses recent certificates gained in the higher grades of the Local Examinations in that subject.

Those holding the diploma of L. Mus. can at any time during the five years immediately following their passing that examination enter for the Mus. Bac. final examination, but they must pass the Matriculation examination.

### REQUIREMENTS FOR THE DEGREE OF BACHELOR OF MUSIC.

Candidates for the Degree must have passed the following examinations:—

1. The Matriculation Examination. (See page 20.)
2. The First Examination in Music, at the end of the First Year.
3. The Second Examination in Music, at the end of the Second Year.
4. The Final Examination.

The particulars of the work for each of the above examinations are as follows:—

*First Examination in Music.*

(a) Advanced Rudiments.
(b) Harmony in 3 and 4 parts.
(c) Counterpoint up to 3 parts.
(d) Form and analysis. Questions will be given on accent, cadence, metre, rhythm, phrasing, etc., and on form, shown in the work of the early classicists (Scarlatti, Bach, Mozart and Haydn).
(e) General outlines of Musical History.
(f) Chief and Second Practical Study (or instead of one of these the composition of a song (or songs) or a miniature suite for Piano (or Violin and Piano or any other combination).

*Second Examination in Music*:

(a) Harmony in not more than 4 parts.
(b) Counterpoint in not more than 4 parts.
(c) Canon in 2 parts and Fugal Exposition up to 4 parts.
(d) History of Music from the 16th century to the present day, with some critical knowledge of a few compositions, either studied during the year or prescribed beforehand.
(e) Form and Analysis.
(f) Elementary Knowledge of Acoustics, or Physiology of Voice.
(g) Chief and Second Practical Study or, instead of one of these, the composition of:—(1) A movement in Sonata form for Pianoforte (or Piano and Violin, or any other combination), or (2) Chorus with independent accompaniment, or (3) Suite for Strings.

*Final Examination in Music*:

(a) Harmony up to 5 parts.
(b) Counterpoint up to 5 parts.
(c) Double counterpart in 8ve, 10th and 12th.
(d) Canon and Fugue in 4 parts.
(e) History of Music from the earliest to the present time.
(f) Form and Analysis. A knowledge will be required of such works as the following:—Bach's 48 Preludes and Fugues, Beethoven's Sonatas, Schubert, Schumann and Brahms' Songs, Mendelssohn's Psalms and such Oratorios as Elijah and St. Paul. (The candidate should send in a list of works, in which he or she is prepared to be examined, a few weeks before the day of examination.)
(g) Instrumentation—a knowledge of the compass and capabilities of all instruments in the modern orchestra, and the scoring of a given passage in a given time, also the reading at sight of a short excerpt from an easy score of an early work of Mozart or Beethoven.
(h) Chief and Second practical study (or in lieu of both of these a composition can be sent in by the candidate containing 4-part chorus, a solo or duet, an unaccompanied quartette and a 4-part Fugue—the whole scored for stringed instruments with independent accompaniment.)

Graduates in Music of other Universities can be admitted to an 'ad eundem' degree in Music of this University on payment of the necessary fees, if they are intending to proceed to the McGill degree of Mus. Doc.

### REQUIREMENTS FOR THE DEGREE OF DOCTOR OF MUSIC.

Bachelors of Music of McGill University, after the lapse of a period of three years from the time of taking the degree of Bachelor of Music, may proceed to the degree of Doctor of Music, the requirement for which is a composition in extended form, such as an oratorio, opera or cantata. This exercise must contain eight part writing and fugal treatment, and must be scored for a full orchestra, which original and unaided composition, if approved of, may be publicly performed by the candidate in the University or some other fit and proper place, at the discretion of the University. In addition, an examination in the higher forms of composition shall be necessary, together with a critical knowledge of the full scores of certain prescribed works.

Further particulars with regard to degrees and diplomas in Music, as well as those relating to Local Examinations, not included in the above, will be found in the special Music Syllabus obtainable on application to the secretary of the McGill University Conservatorium of Music. All the above examinations will be held in Montreal and other centres in the Dominion of Canada where McGill University has local representatives, provided a sufficient number of candidates apply.

# INSTRUCTION IN MILITARY SUBJECTS.

At a number of the leading universities in Great Britain, a scheme for supplying officers to the British Army has been in operation for several years.

Four years ago, the Department of Militia at Ottawa intimated a desire that our Canadian universities should follow the example of those in Great Britain and Ireland and take some part in the education of gentlemen desirous of entering the British army and the Permanent Force in Canada. After due consideration, a scheme was drawn up which received the approval not only of the Canadian Militia Department, but also of the British War Office, and in accordance with this scheme instruction has been given at McGill during the last four sessions. The full course will be given again in 1911-1912.

## General Qualifications of Candidates.

A candidate for a commission,

(a) Must be between the ages of 20 and 25 (for Indian army, 24) on the 1st of April, or on the 1st of October immediately preceding the half-yearly nomination for which he presents himself.

(b) Must be unmarried.

(c) Must be, in the opinion of the Army Council, in all respects suitable to hold a commission in the regular forces.

## Academic Qualifications.

A candidate must:—

(a) Reside for three academic years at the university.

(b) Qualify for a degree in the Faculty of Arts, Applied Science, or Law.

(c) Produce a certificate of good character from the Principal.

A candidate who has graduated with first class honours, or with other distinctions recognized by the Army Council as equivalent thereto, will, if nominated, be entitled to count one year of seniority on obtaining his commission.

A candidate for the Royal Artillery must satisfy the Nomination Board that he has attained the standard of mathematics required by the Army Council.

### Military Qualifications.

(a) A candidate must attend a course of lectures in military subjects and qualify at a subsequent examination.

(b) Must be attached for six consecutive weeks in each of two consecutive years, or 12 consecutive weeks in one year, to a unit of the Permanent Force. Before such attachment he will be required to have been instructed in squad drill, in accordance with infantry training, under arrangements made by the university to which he belongs.

(c) Must be passed by a medical board as physically fit.

(d) Must be nominated by a board appointed for that purpose.

### Course of Lectures.

The lectures in preparation for the examination in military subjects are as follows:—

| SUBJECT | Number of Lectures. | Marks at Examination. |
|---|---|---|
| Group A. | | |
| (1) Military History and Strategy | 28 | 1000 |
| (2) Military Tactics | 28 | 1500 |
| Group B. | | |
| (1) Military Engineering | 20 | 1000 |
| (2) Military Topography | 20 | 1000 |
| Group C. | | |
| (1) Military Law | 12 | 250 |
| (2) Military Administration | 12 | 250 |

Students in the Faculty of Applied Science who take these subjects will be given credit for the marks taken in them at the College Examination, when their general standing for the year is being determined.

An examination is held twice a year (commencing on the last Tuesday in March and on the second Tuesday in Oc-

tober). Candidates may take all three Groups at one examination or may take one or two at a time, as may be found most convenient.

Candidates are recommended to take six weeks of their training with the Permanent Forces before commencing to attend lectures, as they will find it a considerable help in understanding the various subjects. This is, however, by no means indispensable, and the whole course of lectures can be taken, if desired, before the candidate is attached to a military unit.

All details as to the procedure and conditions of attachment to a regular unit, the physical requirements and medical examination, and other matters not specified herein, will be found in the War Office Regulations, a copy of which will be issued to each candidate on registration.

# THE UNIVERSITY LIBRARY.

C. H. GOULD, B.A., Librarian.

The University Library is under the general management of a Committee of Corporation, consisting of the Principal, Chairman; the Librarian, Secretary; two members of the Board of Governors; one Representative Fellow, appointed by Corporation; two representatives of the Faculty of Arts, elected by the Faculty; one representative of each of the Faculties of Applied Science, Law and Medicine, elected by their respective Faculties; and four other members appointed by Corporation.

The several libraries of the University now contain rather more than 130,000 volumes, over 20,000 pamphlets, and considerable collections of maps and of photographs.

In addition to providing for the symmetrical growth of the Library, the Committee has been enabled, through generous gifts, to acquire a number of the rarer and more costly monographs and serials which are indispensable for research, there being now on the shelves fully 300 complete fyles of periodicals and publications of various literary and scientific societies. Many of these have been added through the liberality of Sir William C. Macdonald.

Among the special collections, exclusive of departmental libraries, mention should be made of the *Redpath Historical Collection,* formed by the late Mr. Peter Redpath some years before his death, after which it was steadily augmented during the remainder of her life, by his widow. It is now of great value, and affords excellent opportunities for the study of English History. The most striking feature of the collection—a series of political and religious tracts—was greatly enriched by the late Mrs. Redpath, and now comprises about 10,000 brochures, dating from 1600 A.D. to the end of the nineteenth century.

Abundant materials bearing upon the History of Canada have been gathered together. Of these the nucleus is formed by the entire library of the late Mr. Frederick Griffin, whose choice books were, some years ago, bequeathed to the University. This branch of the library is growing, and includes,

besides important manuscripts, an interesting collection of Canadian portraits and autographs.

The Medical Library, directly controlled by the Faculty of Medicine, is the largest of the departmental libraries, and is one of the most complete collections of its kind in the Dominion.

Current periodicals, with Transactions and other Society publications to the number of about 375 in the aggregate, are regularly received by the Library.

During the autumn of 1900, members of the family of the late Mr. Hugh McLennan generously enabled the Library Committee to establish a system of travelling libraries, for the maintenance and operation of which they have since provided. The libraries are sent on application, and on payment of a nominal fee of $3.00, to any point in Canada. Regulations and full particulars may be obtained from the Librarian of the University. For particulars of the Summer School for Training Librarians see page 34.

Although the library is maintained primarily for members of the University, the Corporation has provided for the admission, upon certain conditions, of such persons as may be approved by the Library Committee. It is the desire of the Committee to make the library as useful to the entire community as is consistent with the safety of the books and the general interests of the University.

### EXTRACTS FROM THE LIBRARY REGULATIONS.

1. The Library is closed on Sundays, and on nine other days during the year. These days, and any variation from the regular hours given below, are noted specifically in the Calendar under the day in question.

The hours of opening are:—

(a) During the Session, from 9 A.M. till 6.30 P.M. and from 7.30 till 10.30 P.M. On Saturdays, from 9 A.M. till 5 P.M.

(b) During vacation from 9 A.M. till 5 P.M. On Saturdays, from 9 A.M. till 1 P.M.

2. Students in the Faculties of Arts, Law, and Applied Science are entitled to read in the Library, and may borrow books (subject to the regulations) to the number of three volumes at one time.

3. Students in the Faculty of Medicine, who have paid the Library fee to the Bursar, may read in the Library, and on depositing the sum of $5 with the Bursar, may borrow books on the same conditions as students in other Faculties.

4. Graduates in any of the Faculties, on making a deposit of $5, are entitled to the use of the Library, subject to the same rules and conditions as students in Arts, Law, or Applied Science.

5. Books may be taken from the Library only after they have been charged at the Delivery Desk: borrowers who cannot attend personally must sign and date an order, giving the titles of the books desired.

6. Books shelved in the Reading-rooms or Seminary-rooms must not be taken from the rooms to which they have been assigned; and after they have been used, they must be returned promptly by readers to their proper places upon the shelves.

7. Before leaving the Library, readers must return the books they have obtained to the attendant at the Delivery Desk.

8. All persons using books remain responsible for them so long as the books are charged to them, and borrowers returning books must see that their receipt is properly cancelled.

9. Writing or making any mark upon any book belonging to the Library is unconditionally forbidden. Any person found guilty of wilfully damaging any book in any way shall be excluded from the Library, and shall be debarred from the use thereof for such time as the Library Committee may determine.

10. Damage to or loss of books, maps, or plates, and injury of Library fixtures, must be made good to the satisfaction of the Librarian and of the Library Committee.

Damage, loss or injury when the responsibility cannot be traced will be made good out of the caution money deposited by the students with the Bursar.

11. Should any borrower fail to return a book upon the date when its return is due, he may be notified by postal card, and be requested to return the book. If the loan is not renewed, or the book returned, after a further delay of at most three days, it may be sent for by special messenger, at the borrower's expense.

12. Before the close of the session, students in their final year must return uninjured, or replace to the satisfaction of the Librarian, all books which they have borrowed.

13. Silence must be strictly observed in the Library.

14. Infringement of any of the rules of the Library will subject the offender to a suspension of his privileges, or to such other penalty as the nature of the case may require.

## THE GRADUATE SCHOOL.

Graduate instruction was for many years offered in the various departments of McGill University without definite organization. The increased demand for such work led the Corporation in 1906 to formally organize and extend the higher teaching work of the University. A graduate School was, therefore, established, and in it are enrolled all the graduate students in the University who are following advanced courses of study in subjects which in the undergraduate work fall within the scope of the Faculties of Arts and of Applied Science.

The Faculty of the Graduate School consists of the professors of the Faculties of Arts and of Applied Science, but the initiative and administration of the School is placed in the hands of a Committee selected mainly from these Faculties and known as the Committee on Graduate Studies. The Chairman of this Committee is the official head of the Graduate School. The advanced courses of study offered in the Graduate School lead to the degrees of Master of Arts, Master of Science, and Doctor of Philosophy.

Instruction for students of the Graduate School is provided in the following departments of study which at present rank as " Subjects ":—

**Philosophy, including Psychology.**
**History.**
**Economics and Political Science**
**Greek Language and Literature (including Grecian History).**
**Latin Language and Literature (including Roman History).**
**French Language and Literature**
**German Language and Literature.**
**English Language and Literature.**
**Semitic Studies.**
**Archæology.**
**Comparative Philology.**
**Education.**
**Mathematics.**
**Physics.**
**Chemistry.**
**Botany.**
**Zoology.**
**Geology and Mineralogy.**
**Thermodynamics and Theory of Heat Engines.**
**Theory of Elasticity, Strength of Materials and Theory of Structures.**
**Hydrodynamics and Hydraulics.**
**Applied Electricity.**
**Theory of Machines and Machine Design.**
**Metallurgy.**
**Mining.**

The requirements for the several degrees in course are as follows:—

### Degree of Master of Arts

1. Candidates must hold the degree of B.A. or B.Sc. (in Arts) from McGill University, or its equivalent.

2. Candidates must have taken

(*a*) One year of resident graduate study at McGill University; or

(b) Two or more years of private work; the amount of such work required may be stated to be the equivalent of one year of academic study.

3. One, two or three subjects may be taken.

4. One of these subjects shall be designated as the major subject and special attention shall be devoted to it. It must be a subject which the student has already studied in his undergraduate course, and the work required in it will represent an attainment in knowlege far in advance of that required for the B.A. degree. The minor subject, or subjects, may be selected from those of the undergraduate course of the Third or Fourth Year, which have not already been taken by the candidate. Not more than one-third of the candidate's time for the year shall be devoted to these subjects. The student shall pass an examination in each of the subjects of his course.

5. The student shall also present a thesis on some topic connected with his major subject. The title of his thesis must have been previously submitted to the Committee on Graduate Studies and the Head of the Department concerned, for their approval. The thesis must show evidence of distinct ability in dealing with the subject selected, and must also display good literary style.

6. Graduates possessing a Bachelor's degree, who act as demonstrators or tutors in the University for the entire session may proceed to the degree of M.A., and, in so doing, may at the discretion of the Department with which they are connected, and the Committee on Graduate Studies, omit a portion of the course of study. They shall, however, be called upon to pass an examination on the course of study which they have followed, and shall in all cases submit the thesis prescribed for that degree. If, however, they desire this year's work to count as one of the three years of study required for the Ph.D. degree, they must make their course of study conform to the Ph.D. requirements.

N.B.—The first year's course of study for the Ph.D. degree will cover the requirements of the M.A. course, but, if such a course of study be followed, a thesis must be submitted and approved before the degree of M.A. is conferred. If, however, the student continues his course of study and takes the degree of Ph.D., the degree of M.A. will be conferred with the degree of Ph.D., in which case no special thesis will be required for the former.

### Degree of Master of Science.

1. Candidates must hold the degree of B.A. or B.Sc. from McGill University, or its equivalent.
2. Candidates must have taken
   (*a*) One year of resident graduate study at McGill University; or
   (*b*) Two or more years of private work; the amount of such work required may be stated to be the equivalent of one year of academic study.
3. The course of study followed by the candidate shall be of an advanced character, being the equivalent of that required for the degree of M.A., and shall lie in the domain of pure or applied science. It shall be selected from *one* of the last thirteen subjects in the list given above. Geodesy and Ore Dressing also constitute subjects in the case of this degree. This course of study must have been previously submitted to the Head of the Department and to the Committee on Graduate Studies and have received their approval.
4. The candidate shall also present a thesis on some subject connected with his course of study. The title of this thesis must have been previously submitted to the Head of the Department and to the Committee on Graduate Studies and have received their approval. This thesis must show evidence of distinct ability in dealing with the subject selected and must also display good literary style. It may deal with some very special topic, but the courses of study followed by the student must cover a much wider field.
5. Graduates possessing a Bachelor's degree, who act as demonstrators or tutors in the University for at least one entire session, may proceed to the degree of M.Sc., and, on so doing, may, at the discretion of the Committee on Graduate Studies, omit a portion of the course of study usually required. They shall, however, be called upon to pass an examination on the course of study which they have followed, and shall in all cases submit the thesis prescribed for the degree.

## Degree of Doctor of Philosophy.

1. The candidate for the degre of Doctor of Philosophy must hold the degree of B.A. or B.Sc. from McGill University, or its equivalent.

2. He must have followed a course of at least three years' resident graduate study.

3. He must select one major subject and one minor subject. The minor subject selected must be related to his chief line of work. This minor subject shall have devoted to it about one-quarter of the instruction given during the entire course.

4. The candidate must satisfy the Committee that he has a reading knowledge of both French and German before he will be permitted to enter upon the course of the second year.

5. The examination on the major subject shall cover not merely the formal courses of instruction which have been taken, but the candidate must show that he possesses a good general knowledge of the whole science or branch of learning which he has selected as his major subject. A similar general, though less detailed, knowledge shall be required in the case of the minor subject.

6. The candidate must also prepare a thesis which must display original scholarship or show marked ability to conduct research. If the thesis be accepted, two hundred printed copies of it must be deposited with the University Librarian before the candidate will receive his diploma.

The University has decided to exact a very high standard in the case of this degree, and at least three years of study are therefore demanded.

To meet immediate needs, the University has decided to offer the complete three years' course leading to the degree of Doctor of Philosophy in the following subjects taken as majors.

**Philosophy**
**Physics.**
**Chemistry.**
**Zoology.**
**Theory of Elasticity, Strength of Materials and Theory of Structures.**
**Hydrodynamics and Hydraulics.**
**Semitic Studies.**

Students desiring to proceed to the degree of Doctor of Philosophy in subjects other than those mentioned above may communicate with the Chairman of the Committee on Gradu-

ate Studies, to whom also application should be made by all students desiring to follow courses of study in the Graduate School.

Owing to the fact that in future all theses submitted by successful candidates for higher degrees will be bound and placed in the Redpath Library, candidates for such degrees are advised that the Committee on Graduate Studies will henceforth require all these to be prepared in a uniform manner and in accordance with the following specifications:—

1st.—The paper is to be of uniform size 8¼ x 10 inches, and of substantial quality.

2nd.—The left-hand margin is to have a uniform width of 1½ inches.

3rd.—All Theses should be type-written if possible.

4th.—No binding is to be employed, but the loose sheets will be placed in a manilla envelope in the order of their pagination.

Paper of standard size and quality may be obtained of the Foster Brown Co., Ltd., 432 St. Catherine St. West, Montreal

*All theses for* 1911-12 *must be in the hands of the Chairman of the Committee on Graduate Studies on or before April* 15*th,* 1912. *No thesis received after this date will be accepted.*

# ROYAL VICTORIA COLLEGE.

The institution of the Royal Victoria College, in September, 1899, was a direct continuation of the work begun in 1883, during the Principalship of the late Sir William Dawson, when Lord Strathcona and Mount Royal placed a sum at the disposal of the University of McGill for the endowment of a College and classes for women. For many years previously it had been hoped by those interested in the education of women in Montreal that the University would extend its benefits to women, but the means necessary for carrying out such an aim had not been available. The classes were organized in 1884 as a special course in the Faculty of Arts, held at McGill College, separate in the main from those for men, but under identical conditions. In some of the work of the Third and Fourth Years, and in the Honour Courses, the classes were held jointly.

The ultimate aim of Lord Strathcona had been the foundation of a place of residence, and, with this object, he announced his intention of building and endowing the Royal Victoria College. By the opening of this Institution the opportunity of residence and college life is given to women-students of McGill University, working in accordance with the system previously organized in the special course in Arts, but under greatly improved conditions. A share in the advantages of college life is offered also to the non-resident women-students of the University, who are henceforth also students of the Royal Victoria College. Additional elements have been added in the organization of a Musical Department, now superseded by the McGill Conservatorium of Music, and in the institution of resident women tutors. These additions are in accordance with the general aim of the College; viz., the higher education of women, and mainly to qualify them to take degrees in Arts (including pure science), and to provide them with instruction in those branches of a liberal education necessary thereto and in such other subjects as may from time to time be determined.

The College being a constituent college of McGill University, its students, whether graduate students, undergraduates,

conditioned undergraduates, or partial students, follow the courses in Arts and pure science offered by the University.

Lectures are given by the professors and lecturers of the University, either in the College or in the University buildings, and students attend the University laboratories for practical instruction. In addition to the instruction given in lectures and laboratory practice, the students of the Royal Victoria College are assisted in their studies by the resident tutors.

## THE COLLEGE BUILDING.

The College is situated on Sherbrooke Street, at the head of Union Avenue, in close proximity to the University buildings and to the slopes of Mount Royal. The building is fire-proof, and much thought and artistic care have been given to the furnishing and decoration.

On the ground floor are the offices of the Administration, including the rooms of the Warden and Secretary, the professors' common room, lecture rooms, students' common room and a spacious dining hall. On the first floor are other lecture rooms, the library, reading-room, a handsome assembly hall, and a few rooms for resident students. The second and third floors are occupied by the rooms of the resident students and tutors. These are of varying size and plan. Each student has a separate study bedroom. The entire use of a sitting-room can be obtained, and arrangements may be made for a sitting-room to be shared by the occupants of the two or three bedrooms immediately adjoining. The rooms are completely furnished, and no article of furniture need be brought by the students.

In addition to the lawn at the back of the College, the students are entitled to use, subject to regulations, the grounds of McGill University, with its tennis-courts, skating-rink, etc.

A nucleus of a College library has been formed with a set of books, comprising the chief stated books and others referred to in connection with the University curricula, the modern language course being especially well represented. There are also works of general literature. The library is a reading-room, and the books are not taken away. The students have access also to the University lending-library.

Resident students of music have the use of pianos in two practising-rooms and, at certain hours, in other parts of the building.

A large gymnasium is provided, fully equipped in accordance with modern requirements. In connection with the Gymnasium there are bath-rooms and dressing-rooms.

Students of the Royal Victoria College, as students of McGill University, are entitled to the use of the University Library, containing about 126,000 volumes, and the Peter Redpath Museum, containing large collections in mineralogy, palæontology, zoology, botany, archæology, and ethnology, and to work in the physical, chemical, zoological, botanical and other laboratories. (For particulars of laboratories, etc., see pp. 80 to 86.)

## BOARD AND RESIDENCE.

Residence in the College building is open to graduate students, undergraduates, conditioned undergraduates, or partial students, but the last are not received in residence unless they take courses of study approved by the Faculty of the College. The charge for board and residence, in addition to the sessional fees for tuition (see pp. 59 to 61) is $351. An additional charge, varying from $25 to $60, is made for the use of a private sitting-room, shared by two students, or for the sole use of a private sitting-room. These charges cover the University Session, 28th September—11th May, and the Summer Classes, extending to June 12th, and other periods, if necessary, for examinations. Students remaining in residence during the Christmas Vacation will be required to pay $1.00 a day for board and residence during that period. A deduction of $50 is made in the case of students who go out of residence at the end of the University Session.

The health of the resident students is under the charge of a competent physician practising in Montreal, who may be consulted free of charge. Every student applying for admission to Residence is required to forward a medical certificate on a form provided by the College.

Applications for admission or further particulars should be addressed to the Warden, Royal Victoria College, Montreal.

## PHYSICAL EDUCATION

The Department is in charge of the Medical Director of Physical Education of McGill, and a graduate of a Physical Education College.

Every student on entering the University is required to pass a physical examination (see regulation p. 32).

The physical education offered to undergraduate students includes educational, remedial and recreative gymnastics.

The educational gymnastics are based on anatomical and physiological laws; the exercises aim at producing the highest degree of health in each individual, and thus contribute to mental as well as to physical efficiency. The course of exercises, which is progressive throughout each session, encourages the harmonious development of the nervous and muscular system, and provides a remedy for incorrect habits of sitting, standing and walking. Special attention is given to the development of the chest, since a good lung capacity is the foundation of a really healthy constitution. All students are examined by the Medical and Physical Directors before taking part in any of the exercises organized by the Department, and a remedial gymnastic course is prescribed for undergraduate students with spinal curvature, or who are physically unfit for ordinary class work.

Recreative gymnastics in the shape of basket ball, tennis, ice hockey, fancy skating and athletic sports are also organized by the Royal Victoria College Athletic Association, under the supervision of the Department.

Undergraduates of the First and Second Years are required to attend two educational gymnastic classes per week and undergraduates of the Third Year one per week.* Undergraduates of the Fourth Year wishing to enter educational gymnastic classes are expected to attend regularly. Undergraduate students entering the Royal Victoria College in their Third or Fourth Year are required to attend educational gymnastic classes twice a week for one session, unless they are excused for reasons deemed sufficient by the Department.

Partial students in residence are also required to attend educational gymnastic classes. Educational and recreative gymnastics are open to all Partial students on payment of special fees.

The Physical Director arranges all regulations regarding necessary attendance and the substituting of recreative gymnastics for educational.

---

*In all cases of absence the student is required to report to the Physical Director.

## EXHIBITIONS AND SCHOLARSHIPS.

For a statement of the Exhibitions and Scholarships open to women students of the University, see pp. 44 to 50.

In addition to these, and further to encourage residence within the College walls of students who might otherwise arrange to board in the city, the Warden and Staff are empowered to make nominations in any of the four College years to not more than three additional Exhibitions of the value of $100 each.

## MUSIC.

Instruction in Music is offered at the McGill Conservatorium of Music,—Director, Dr. H. C. Perrin; Miss Clara Lichtenstein, Vice-Director. The subjects of instruction carried on in the Conservatorium are:—pianoforte, singing, organ, violin, violoncello, and all orchestral instruments; harmony, counterpoint, canon and fugue, composition, form, analysis, history of music, theory, elements of music, orchestral class, ensemble playing, piano-accompaniment, part singing, choir singing, sight singing, operatic class, English, French, German, Italian, elocution. Students may prepare for the degree examinations in music of the University, or for other examinations recommended by the Conservatorium.

For information regarding courses in music leading to degrees, see page 109, and also the separate syllabus issued by the Conservatorium of Music.

# MACDONALD COLLEGE.

## GENERAL STATEMENT.

Macdonald College, which is incorporated with McGill University, was founded, erected, equipped and endowed by Sir William C. Macdonald for the following, among other purposes:—

(1) For the advancement of education; for the carrying on of research work and investigation and the dissemination of knowledge; all with particular regard to the interests and needs of the population in rural districts.

(2) To provide suitable and effective training for teachers, and especially for those whose work will directly affect the education in schools in rural districts.

The College occupies a beautiful site, overlooking the Ottawa River at Ste. Anne de Bellevue, twenty miles west of Montreal. The main lines of the Grand Trunk and the Canadian Pacific railways pass through the property, and the stations of both railways are within its boundaries.

The College property comprises 561 acres, and has been arranged into four main areas, viz.; (1) the Campus, with lawn, school garden, and recreation fields for boys and girls; (2) Experimental Grounds, with plots for illustration and research in grains, grasses, and flowers; (3) the Small Cultures Farm for horticulture and poultry keeping; and (4) the Live Stock and Grain Farm extending to 387 acres.

## THE GENERAL ORGANIZATION.

The College is divided into three schools, and a student is enrolled in that one in which the major portion of his work is taken:

(1) **The School of Agriculture,** which aims to provide a thorough theoretical and practical training in the several branches of Agriculture.

(2) **The School for Teachers,** where will be offered a comprehensive and thoroughly practical training in the art and science of teaching.

(3) **The School of Household Science,** in which young women receive training which will make for the improvement and greater enjoyment of home life.

## Entrance Requirements.

*School of Agriculture.*

All candidates for admission:—

1. Must have entered upon their eighteenth year;

2. Must produce satisfactory evidence as to moral character, also medical certificate of physical health, including successful vaccination; and

3. Must produce evidence of having worked for a season (seed time to harvest) on a farm, affording a practical knowledge of ordinary farm operations.

All candidates for the One and Two-Year Courses will be required to read and write the English language acceptably, to be proficient in the use of elementary mathematics, and to be acquainted with history and geography, especially of Canada.

A student who applies for admission to the courses leading to a degree will be required:—

(a) to pass, before entrance, an examination in English composition, English grammar, history and arithmetic.

(b) before being allowed to proceed with the work of the Third Year, to have obtained 60 per cent. of the marks in English and 50 per cent. in general proficiency in the examination of the work of the Two-Year Course, and the permission of the Faculty;

*or*

(c) to have passed an examination* in the following subjects, up to the requirements for entrance to the other Faculties of McGill University—(1) English Literature, (2) Latin. French or German, (3) Algebra, Part I, (4) Geometry, Part I, (5) any two of the following: Botany, Chemistry, Physics, Zoology; to have passed an examination in the work of the Two Years Course; and to have obtained the permission of the Faculty.

---

* Certificates of having passed an equivalent examination will be accepted.

*School for Teachers.*

Teachers to be trained for the schools under the control of the Protestant Committee of the Council of Public Instruction for the Province of Quebec will be admitted under conditions prescribed by that body, particulars concerning which are given in detail in the Announcement of Macdonald College.

Other teachers, and others who wish to become teachers elsewhere, will be admitted for courses under regulations of the Macdonald College Committee.

Such candidates for admission:—

1. Must be 18 years of age;

2. Must be recommended by the Department of Education or a School Inspector of the Province in which they reside;

3. Must produce satisfactory evidence as to moral character; also medical certificate of health, including successful vaccination.

*School of Household Science.*

All candidates for admission: —

1. Must have entered upon their eighteenth year;

2. Must produce satisfactory evidence as to moral character; also medical certificate of health, including success ul vaccination.

All candidates for the One and Two-Year Courses will be required to read and write the English language acce t-ably, to be proficient in the use of elementary mathematics, and to be acquainted with history and geography, especially of Canada.

## LIVING EXPENSES AND FEES.

The charges for board and lodging are as follows:—

For each occupant of a double room with single beds, per week ..... $4.00

The above charges must be paid strictly in advance, and may be for the whole term, or for four weeks at a time.

*Caution Money*—Every student must also, at the time of entrance, make a cash deposit of $5.00 with the Bursar of the College, to cover fines, breakages, etc.; and as soon as any student's deposit is exhausted he or she will be required forthwith to make an additional deposit of the same amount.

*Payments at Entrance—*

For First and Second Year Students in the School of Agriculture and in the School for Teachers:—

| | |
|---|---|
| Four weeks board in advance ..... | $16.00 |
| Caution money deposit ..... | 5.00 |
| Laboratory fee ..... | 5.00 |
| Doctor's fee ..... | 3.00 |
| | $29.00 |

For Third and Fourth Year Students in the School of Agriculture—

| | |
|---|---|
| Four weeks board in advance ..... | $16.00 |
| Tuition fee ..... | 50.00 |
| Caution money deposit ..... | 5.00 |
| Laboratory fee ..... | 15.00 |
| Doctor's fee ..... | 3.00 |
| | $89.00 |

For First and Second Year Students in Household Science:

| | |
|---|---|
| Four weeks board in advance ..... | $16.00 |
| Caution money deposit ..... | 5.00 |
| Laboratory fee ..... | 10.00 |
| Doctor's fee ..... | 3.00 |
| | $34.00 |

For students in the Three Months Course in Household Science—

| | |
|---|---|
| Four weeks board in advance ..... | $16.00 |
| Caution money deposit ..... | 5.00 |
| Laboratory fee ..... | 5.00 |
| Doctor's fee ..... | 2.00 |
| | $28.00 |

## FEES.

In the School for Teachers tuition is free to residents of Quebec. Other residents of Canada are charged $75.00 and students from outside of Canada $100.00.

In the School of Agriculture tuition is free to residents of Quebec in the first two years. For other residents of Canada the fee is $50.00 and for students outside of Canada $100.00.

In the School of Household Science tuition is free for residents of the Province of Quebec; for other residents of Canada the fee is $75.00 and for students outside of Canada $100.00 per session.

## THE B.S.A. DEGREE.

Students who shall have completed the regular course of study in Agriculture, as prescribed in the Announcement of the College, shall have passed the prescribed examinations for graduation; and shall have performed such exercises as may be prescribed to that end—the whole to the satisfaction of the Faculty of Agriculture—shall be entitled to the degree of Bachelor of Science in Agriculture, and the designation of the Degree, when abbreviated, shall be the letters B.S.A.

## COLLEGE ANNOUNCEMENT.

Full details as to the courses, etc., will be found in the Announcement of Macdonald College, which will be sent on application to the Principal, Macdonald College Post Office, Que.

# STUDENT SOCIETIES.

In addition to the Clubs mentioned under the head of the "University Athletic Association" on page 71, the following student organizations exist within the University:—

(1) The Students' Society.
(This is intended to promote the interests of the student body as a whole. The executive of this Society shall be the only recognized medium of communication between the students, on the one hand, and the University authorities and the general public, on the other, and shall also act as a Court before which any student may be called to account for a misdemeanour.)
(2) The McGill Union Club.
(3) Undergraduates' Literary and Debating Society.
(4) Arts Undergraduates' Society.
(5) Applied Science Undergraduates' Society.
(6) Medical Society.
(7) Undergraduates' Society in Law.
(8) Cercle Français.
(9) Physical Society.
(10) Chemical Society.
(11) Electric Club.
(12) Mining Society.
(13) Historical Club.
(14) Delta Sigma Society (For women students).
(15) Société Française.
(16) The Readers' Club.
(17) Philosophical Society.
(18) Science '12 Debating Club.
(19) Science '13 Debating Club.
(20) Young Men's Christian Association.
(21) Young Women's Christian Association.
(22) Rifle Association.
(23) Glee and Mandolin Club.
(24) Western Club (composed of students from the West).
(25) The Maritime Club.
(26) Royal Victoria College Athletic Club.

# STUDENTS IN ATTENDANCE, SESSION 1910-1911.

SUMMARY.

| | | |
|---|---|---|
| Students in Law | | 60 |
| Students in Arts, McGill College— | | |
| Men—Undergraduates | 202 | |
| Conditioned | 22 | |
| Partial | 95 | |
| Women—Undergraduates | 101 | |
| Conditioned | 3 | |
| Partial | 37 | |
| Partial students taking special courses for Teachers | 21 | |
| Students in Arts, McGill University College of B.C. | 118 | |
| Students in Arts, Victoria College | 28 | |
| | | 627 |
| Students in Applied Science:— | | |
| Undergraduates | 461 | |
| Conditioned | 38 | |
| Partial | 79 | |
| Students in Applied Science, McGill University College of B.C. | 32 | |
| | | 610 |
| Students in Medicine:— | | |
| Undergraduates | 269 | |
| Conditioned | 27 | |
| Partial | 8 | |
| | | 304 |
| Students in Music | | 73 |
| Graduates in Medicine taking course for Diploma of Public Health | | 6 |
| Students in Graduate School | | 83 |
| Students taking Extension Lectures | | 80 |
| " in French Summer School | | 160 |
| | | 2003 |
| Deduct repeated in different faculties | | 34 |
| | | 1969 |
| Students in Macdonald College | | 325 |
| Total | | 2294 |

BULLETIN

OF

# McGILL UNIVERSITY

MONTREAL.

---

## ANNOUNCEMENT

OF

## THE FACULTY OF ARTS

---

FOR SESSION 1911-1912

---

MONTREAL

PRINTED FOR THE UNIVERSITY BY THE GAZETTE PRINTING CO, LIMITED

1911

# INDEX.


| | PAGE. |
|---|---|
| Academic Year | 6 |
| Administrative Officers | 5 |
| **Admission** | 12 |
| Of Partial Students | 27 |
| Of Students of other Universities | 26 |
| Advanced Courses | 50 |
| Advanced Exhibitions | 35 |
| Advisory Committee | 5, 50 |
| Age for Admission | 27 |
| Algebra | 97 |
| For Matriculation | 20 |
| Analytical Geometry | 97 |
| Anglo-Saxon | 74 |
| Annie McIntosh Prize | 45 |
| Arabic, Courses in | 86 |
| Aramaic, Courses in | 87 |
| Arithmetic for Matriculation | 17 |
| Astronomy | 98 |
| Attendance, Rules regarding | 29 |
| | |
| B.A. Degree, Courses for | 50, 54 |
| B.A. and B.C.L. | 62 |
| B.A. and B.Sc. | 60 |
| B.A. and M.D. | 61 |
| B.Sc. and M.D. | 61 |
| B.Sc. Degree, Course for in Faculty of Arts | 56 |
| Biology | 107, 108 |
| Board and Residence | 30 |
| Botany | 107 |
| For Matriculation | 23 |
| British School of Classical Studies, Athens | 66 |
| British School of Classical Studies, Rome | 69 |
| | |
| Calculus | 97 |
| Calendar of Meetings, etc. | 6 |
| Caution Money | 49 |
| Certificates Accepted for Matriculation | 14 |
| In Arts | 46 |
| Chemistry | 101 |
| For Matriculation | 23 |
| Classics | 64 |
| Classification of Students | 27 |
| Commerce, Diploma of | 110 |
| Commercial Course | 110 |
| Committees of the Faculty | 5 |
| Comparative Literature | 76 |
| Comparative Philology | 70 |
| Composition, English | 70 |
| Conditioned Undergraduates | 27 |
| Conics | 97 |
| Constitutional Law | 96 |
| Coster Memorial Prize | 44 |
| Courses for B.A. | 50 |
| For B.Sc. | 56 |
| Course for Diploma of Commerce | 110 |

| | PAGE |
|---|---|
| Dates for Session 1911-1912 | 6 |
| Diploma of Commerce | 110 |
| Double Courses :— | |
| Arts and Applied Science | 60 |
| " " Law | 62 |
| " " Medicine | 61 |
| " " Theology | 63 |
| Dynamics | 98 |
| Early English Text Society's Prize | 44 |
| Economics | 93 |
| Education | 95 |
| Electricity | 100 |
| Embryology | 109 |
| English | 70 |
| For Matriculation | 17 |
| English Composition | 70 |
| English Grammar for Matriculation | 17 |
| Entrance Examination | 12 |
| Into Second Year | 25 |
| Entrance Exhibitions | 34 |
| Equivalent Standing for Students from other Universities. | 26 |
| Ethics | 89 |
| Examinations | 59 |
| For Entrance | 15 |
| For Exhibitions | 34 |
| For Scholarships | 39 |
| Time Tables of | 9 |
| Exemptions from Matriculation Examination | 14 |
| Exemptions in Arts for Students in Professional Faculties. | 60 |
| For Students in Theological Colleges | 63 |
| **Exhibitions** | 33 |
| First Year Entrance | 34 |
| For Graduates of School for Teachers | 34 |
| Mackenzie | 41 |
| Ross, P. S. | 35 |
| Second Year in Arts | 37 |
| And see Scholarships. | |
| Expenses of Students | 31 |
| Experimental Physics | 100 |
| **Fees** | 48 |
| For Matriculation | 15 |
| First Year Course in Arts | 50 |
| First Year Exhibitions | 34 |
| Fourth Year Course in Arts | 52 |
| French | 77 |
| For Matriculation | 19 |
| Geology | 103 |
| Geometry | 97 |
| For Matriculation | 20 |
| German | 80 |
| For Matriculation | 19 |
| Graduate Students | 27 |
| Greek | 64 |
| For Matriculation | 18 |
| Hebrew, Courses in | 84 |
| History | 91 |
| For Matriculation | 17 |

| | PAGE. |
|---|---|
| Honour Courses for B.A. | 53 |
| For B.Sc. | 56 |
| Hydrostatics | 98 |
| Instruction Officers of | 1 |
| Italian | 82 |
| Latin | 66 |
| For Matriculation | 18 |
| Lecture Courses | 64 |
| Lectures, Time Tables of | 8 |
| Lecturers, List of | 1 |
| Living Expenses | 31 |
| Local Centre Matriculation Examination | 12 |
| Lodgings | 30 |
| Logic, Courses in | 89 |
| Mackenzie Exhibitions | 41 |
| Magnetism | 100 |
| Mathematics | 97 |
| **Matriculation Examination** | 12 |
| Certificates accepted for | 14 |
| Exemptions from | 14 |
| Fees for | 15 |
| Subjects of Examination | 15 |
| Time Table | 25 |
| Matriculation Exhibitions | 34 |
| Medals | 46 |
| Mental and Moral Philosophy | 88 |
| Metaphysics | 88 |
| Middle English | 74 |
| Military Courses | 52 |
| Mineralogy | 103 |
| Modern Languages | 77 |
| Mœso-Gothic | 75 |
| Moral Philosophy | 89 |
| Neil Stewart Prize | 44 |
| Officers of Instruction, etc | 1 |
| Ordinary Course for B.A. | 50 |
| Ordinary Course for B.Sc | 56 |
| Ore Deposits | 105 |
| Oriental Languages | 83 |
| Palæontology | 105 |
| Partial Students, Definition of | 27 |
| Pass Standard for Matriculation | 13 |
| Pedagogy | 95 |
| Petrography | 104 |
| Philosophy | 88 |
| Physical Chemistry | 102 |
| Physical Examination | 26 |
| Physiography | 105 |
| For Matriculation | 23 |
| Physiology | 108 |
| Physics | 99 |
| For Matriculation | 24 |
| Political Economy | 93 |
| Political Science | 93 |

| | PAGE. |
|---|---|
| Prizes | 44 |
| Promotion, Rules re | 59 |
| P. S. Ross Exhibition | 35 |
| Professors, List of | 1 |
| Psychology, Courses in | 89 |
| Railway Rates | 32 |
| Registration | 28 |
| Requirements for Entrance | 12 |
| Residence and Board | 30 |
| Roman Law | 96 |
| Ross (P.S.) Exhibition | 35 |
| Sanskrit | 69 |
| Scholarships | 33 |
| School of Commerce | 110 |
| Second Year Course in Arts | 51 |
| Second Year Exhibitions | 37 |
| Semitic Languages, Courses in | 83 |
| Shakspere Society's Prize | 44 |
| Spanish | 83 |
| Special Certificates in Arts | 47 |
| Solid Geometry | 97 |
| Spherical Trigonometry | 97 |
| Standing Committees | 5 |
| Statics | 98 |
| Students, Classes of | 27 |
| Students' Expenses | 31 |
| Subjects for Matriculation | 15 |
| Supplemental Examinations | 60 |
| Syriac, Courses in | 85 |
| Text Books for Matriculation | 17-24 |
| Third Year Courses in Arts | 52 |
| Third Year Scholarships | 39 |
| Time Tables of Examinations | 9, 25 |
| Time Tables of Lectures | 8 |
| Trigonometry | 97 |
| Undergraduates, Definition of | 27 |
| Year Promotion | 59 |
| Zoology | 108 |

# Officers of Instruction.

## FACULTY OF ARTS.

W. Peterson, M.A. (Edin. and Oxon.), LL.D. (St. Andrews), C.M.G.
*Principal and Professor of Classics.* 447 Sherbrooke Street, West.

Charles E. Moyse, B.A., (London), LL.D.
*Vice-Principal and Dean of the Faculty of Arts, and Molson Professor of English Language and Literature.*
324 Sherbrooke St. W.

Frank D. Adams, Ph.D. (Heidelberg), D.Sc., F.G.S.A., F.R.S.
*Logan Professor of Geology and Palaeontology.* 243 Mountain St.

C. W. Colby, M.A. and Ph.D. (Harvard).
*Kingsford Professor of History.* 560 Pine Ave.

J. Wallace Walker, Ph.D. (Leipsic), F.R.S.C.
*Macdonald Professor of Chemistry and joint Director of the Chemistry and Mining Building.*
768 St. Catherine Road, Outremont.

Hermann Walter, Ph.D. (Munich).
*Professor of Modern Languages.* 260 University St.

James Harkness, M.A. (Cantab.)., F.R.S.C.
*Peter Redpath Professor of Pure Mathematics.*
23 Lorne Ave.

William Caldwell, D.Sc. (Edin.), formerly Shaw Fellow of the University of Edinburgh.
*Macdonald Professor of Moral Philosophy.* 51 Shuter St.

John MacNaughton, M.A. (Cantab.).
*Hiram Mills Professor of Classics.* 233 University St.

Paul T. Lafleur, M.A.
*Professor of Comparative Literature and Associate Professor of English.* 98 University St.

Howard T. Barnes, D.Sc., F.R.S.
*Macdonald Professor of Physics and Director of the Physics Building.* 239 Pine Avenue, W.

J. A. Dale, M.A. (Oxon.).
*Macdonald Professor of Education.* 235 University St

H. C. Perrin, Mus. Doc. (Trinity Coll, Dublin University).
*Professor of Music and Director of the McGill Conservatorium of Music.* 159 University St.

S. B. Leacock, Ph.D. (Chicago).
*Professor of Political Economy.* 165 Côte des Neiges Road.

Harold A. Wilson, D.Sc., F.R.S., formerly Fellow of Trinity College, Cambridge.
*Macdonald Professor of Physics.*
6 Travancore Apartments, Cedar Ave.

Arthur Willey, D.Sc., F.R.S.
*Strathcona Professor of Zoology.*
The York Apartments, Mance St.

C. A. Brodie Brockwell, M.A.
*Professor of Hebrew and Semitic Languages.*

---

*Professor of Botany.*

LEIGH R. GREGOR, B.A., Ph.D. (Heidelberg).
*Associate Professor of Modern Languages.* 139 Bayle Street.
ETHEL HURLBATT, M.A., T.C.D. (Somerville College, Oxford).
*Warden of the Royal Victoria College and Resident Tutor in History* Royal Victoria College.
(*The above constitute the Faculty of Arts*).

OTHER OFFICERS OF INSTRUCTION.

NEVIL NORTON EVANS, M.A.Sc.
*Associate Professor of Chemistry.* 157 St. Famille Street.
A. S. EVE, D.Sc.
*Associate Professor of Mathematics.*
860 St. Catherine Road, Côte des Neiges.
DOUGLAS MCINTOSH, D.Sc.
*Associate Professor of Chemistry.* McGill College.
S. B. SLACK, M.A. (Oxon.).
*Associate Professor of Classics, and Lecturer on Comparative Philology.* McGill College.
J. W. A. HICKSON, M.A., Ph.D. (Halle).
*Associate Professor of Logic and Metaphysics.* 272 Mountain St.
J. C. SIMPSON, B.Sc.
*Associate Professor of Histology and Embryology.*
20 Oxenden Ave.
HERBERT J. ROSE, B.A. (Oxon.).
*Associate Professor of Classics.*
CARRIE M. DERICK, M.A.
*Assistant Professor of Botany.* 85 Crescent Street.
J. L. MORIN, M.A.
*Assistant Professor of Modern Languages.* 95 Durocher Street.
CHARLES EDMUND FRYER, M.A., Ph.D. (Harvard).
*Assistant Professor of History.* 20 Oxenden Ave.
T. RIDLER DAVIES, B.A. (Cantab.).
*Assistant Professor of Mathematics.* 69 University Street.
J. C. HEMMEON, M.A., Ph.D. (Harvard).
*Assistant Professor of Economics.* McGill College.
J AUSTEN BANCROFT, Ph.D.
*Assistant Professor of Geology.* McGill College.
F. M. G. JOHNSON, M.Sc., Ph.D. (Breslau), F.I.C.
*Assistant Professor of Organic and Analytical Chemistry.*
286 Peel St.
E. T. LAMBERT, B.A. (Lond.).
*Lecturer in Modern Languages.* 456 Mountain Ave., Westmount.
J. STAFFORD, B.A. (Toronto), M.A., Ph.D. (Leipsic).
*Lecturer in Zoology.* McGill College.
SUSAN E. CAMERON, M.A.
*Vice-Warden of the Royal Victoria College, Lecturer and Resident Tutor in English.* Royal Victoria College.
CLARA LICHTENSTEIN.
(Diplomée of the Royal Academy of Music, Buda-Pesth.)
*Lecturer and Resident Instructor in Music.*
Royal Victoria College.
MLLE. G. BIANQUIS, Agrégée de l'Université de France, Docteur de l'Université de Paris.
*Lecturer in French (Royal Victoria College).*
Royal Victoria College.

G. W. LATHAM, B.A.
*Lecturer in English.* 1359 St. Urbain Street.
RICHARD P. D. GRAHAM, B.A. (Oxon.).
*Assistant Professor of Mineralogy.* McGill College.
LEMUEL ROBERTSON, M.A.
*Lecturer in Classics.*
F. H. DAY, M.Sc. (Boston).
*Lecturer in Physics.* 65 Shuter St.
N. R. GILLIS, M.Sc.
*Lecturer in Physics.* McGill College.
WILLIAM D. TAIT, Ph.D. (Harvard).
***Lecturer in Experimental Psychology.*** Columbia Ave., Westmount.
ELIZABETH A. HAMMOND IRWIN, M.A.
*Lecturer and Tutor in Classics (Royal Victoria College).* 210 Villeneuve Street, W.
CYRUS MCMILLAN, Ph.D. (Harvard).
*Lecturer in English.* The Marlborough, Milton St.
JOHN STANSFIELD, B.A. (Cambridge), F.G.S.
*Lecturer in Geology.*
R. KENNETH NAYLOR, B.A.
*Sessional Lecturer and Tutor in Classics.* McGill College.
ALFRED E. BARLOW, D.Sc.
*Sessional Lecturer in Geology.* McGill College.
REV. NATHAN GORDON, M.A., B.D.
*Sessional Lecturer in Rabbinical and Mediæval Jewish Language and Literature.* 68 Stanley St.
REV. A. R. GORDON, D. Litt.
*Sessional Lecturer in Hebrew.* Presbyterian College.
REV. G. ABBOTT-SMITH, M.A., D.D.
*Sessional Lecturer in Hellenistic Jewish Literature.* Diocesan College.
L. V. KING, B.A. (Cantab.).
*Sessional Lecturer in Physics.*
ANNA SCHAFHEITLIN, B.A.,
*Sessional Lecturer and Tutor in German.*

---

*Demonstrator in Chemistry.*
V. I. HARDING, M.Sc.
*Demonstrator in Chemistry.*
V. K. KRIEBLE, M.Sc
*Demonstrator in Chemistry*
H. W. MATHESON, B.Sc.
*Demonstrator in Chemistry..*
J. NICOLLS, B.Sc.
*Demonstrator in Chemistry.*
J. C. POMEROY.
*Demonstrator in Physics.*
NATHANIAL E. WHEELER, B.Sc.
*Demonstrator in Physics.*
H. E. REILLEY, B.A.
*Assistant Demonstrator in Physics.*
J. B. MABON, B.A.
*Sessional Lecturer in Mathematics and Assistant Demonstrator in Physics.*

J. W. HAYWARD.
*Assistant Demonstrator in Physics.*

JOHN P. STEPHEN.
*Instructor in Elocution.* 18 McGill College Ave.

With the foregoing are associated:

F. P. WALTON, B.A. (Oxon.), LL.B. (Edin.), LL.D. (Aberdeen).
*Gale Professor of Roman Law and Lecturer on Constitutional Law.* 552 Pine Avenue W.

C. H. McLEOD, Ma.E., F.R.S.C.
*Superintendent of Meteorological Observatory.* McGill College.

GENERAL INSTRUCTORS.

LIEUT.-COL. T. BIRCHALL WOOD.
*Lecturer in Military History and Strategy, Military Tactics, and Military Law and Administration.*
Royal Military College, Kingston.

CAPTAIN TYRELL.
*Lecturer in Military Engineering and Topography.*
Headquarters Quebec Command, Renouf Building, Montreal.

F. W. HARVEY, B.A., M.D.
*Medical Director of Physical Education.* 58 Crescent Street.

W. J. JACOMB.
*Instructor in Gymnastics.* 151 Mansfield Street.

MISS ETHEL M. CARTWRIGHT.
*Physical Director, Royal Victoria College.*
Royal Victoria College.

## STANDING COMMITTEES OF THE FACULTY.

THE B.A. ADVISORY COMMITTEE.

The Dean, Chairman.

Dr. Leacock. Dr. Walker.
Dr. Walter. Prof. Dale.

THE B.SC. ADVISORY COMMITTEE.

Dr. Walker, Chairman.

Dr. Adams. Dr. Wilson.
Prof. Harkness. Dr. Willey.
Dr. Barnes.

TIME TABLE COMMITTEE.

Dr. Leacock, Chairman.

Miss Hurlbatt. Dr. Wilson.

SCHOLARSHIPS AND EXHIBITIONS COMMITTEE.

Prof. Harkness, Chairman.

Dr. Walker. Dr. Caldwell.
Dr. Walter. Dr. Wilson.
Prof. Macnaughton.

## ADMINISTRATIVE OFFICERS.

W. Peterson, M.A. (Edin. and Oxon.), LL.D. (St. Andrews), Principal.
C. E. Moyse, B.A. (Lond.), LL.D., Dean.
W. Vaughan, University Secretary and Bursar.
J. A. Nicholson, M.A., University Registrar.
C. H. Gould, B.A., Librarian.

# CALENDAR FOR 1911-1912.

## Faculty of Arts.

| | |
|---|---|
| 1911<br>Saturday,<br>May 20th. | Last day for receiving applications for the Matriculation Examination at outside centres in June. |
| Monday,<br>May 29th. | Last day for receiving applications for the June Matriculation Examination in Montreal. |
| Monday,<br>June 12th. | Matriculation and First Year Arts Exhibition Examinations begin. |
| Friday,<br>September 15th. | Last day for receiving applications for the September Matriculation Examination. |
| Thursday,<br>September 21st. | Matriculation Examination begins (held only at the University and Affiliated Colleges). Exhibition, Scholarship and Supplemental Examinations in Arts begin. |
| September 25th<br>to 28th. | Registration of students at the Registrar's Office. |
| Friday,<br>September 29th. | Registration of new students in Molson Hall. |
| Saturday,<br>September 30th. | Registration of students previously enrolled, in Molson Hall and R.V.C. |
| Monday,<br>October 2nd. | Lectures begin in all Faculties. |
| Friday,<br>October 6th. | Founder's Birthday. University lecture. |
| Wednesday,<br>December 13th. | Last day of lectures for term, in Arts. |
| Friday,<br>December 15th. | Examinations in Arts begin. |
| Thursday,<br>December 21st. | Christmas vacation begins. |

| | |
|---|---|
| 1912<br>Thursday,<br>January 4th. | Second term opens. Work resumed in all Faculties. |
| Wednesday,<br>February 21st. | Ash Wednesday. No lectures. |
| Friday,<br>April 5th. | Good Friday. No lectures. |
| Friday,<br>April 12th. | Last day of lectures in Arts. |
| Wednesday,<br>April 17th. | Sessional Examinations in Arts begin. |
| Friday,<br>May 10th. | Convocation for conferring Degrees in Arts. |

# TIME TABLES OF LECTURES.

## Faculty of Arts.

| Hour. | First Year Men. | First Year Women. | Second Year. | Third & Fourth Years. |
|---|---|---|---|---|
| Lectures at 9, omitting Friday. | Mathematics. | English. (Comp., Mon ; Lit., Wed.) Gymnasium. (Tues. & Thurs.) | English—Men. French—Women. German—Men (Fri.) Latin—Women (Fri.) | Sanskrit. Geology. (Mon., Wed., Thurs.) |
| Lectures at 10, omitting Tuesday | Latin. | French. | Chemistry (Mon., Wed., Thurs.) German—Men (Tues.) Hebrew. Gymnasium—Women (Tues.) | History. Mathematics. German. Botany. Physics. |
| Lectures at 11, omitting Thursday | French. History (Thurs.) | Latin. | Economics and History. German—Women. Gymnasium—Women (Thurs.) German—Men (Thurs.) | Economics. Latin. Chemistry. Hebrew. English. (Tues. & Wed., 3B; Mon. & Fri., 4B) Eng. Comp., III (Thurs.) |
| Lectures at 12, omitting Wednesday | English. (Comp., Mon.; Lit., Fri.) | Mathematics. History. (Wed.) | Latin. German—Men (Wed.) Latin—Women (Fri.) | Philosophy (Ethics). French. Eng. Comp., IV (Wed.) |
| Lectures at 2, omitting Wednesday | Physics. (Tues. & Thurs.) | German. | Mathematics. (Tues., Thurs. & Fri.) *Zoology— (Monday and Thursday) †Botany (Mon. & Thurs.) Logic & Psychology. | Political Science. Zoology (Tues. and Fri.) |
| Lectures at 3, omitting Wednesday | Greek. | Physics. (Tues. & Thurs.) | English—Women. French—Men. | Greek. Psychology. Mechanics. (Mon. and Thurs.) Astronomy (Tues. & Fri.) |
| Lectures at 4, omitting Wednesday | German. | Greek | Greek. | Philosophy (Theory of Knowledge). English. (Tues. & Fri., 4A; Mon. & Thurs., 3A) Comp. Philology. (Tues. & Thurs.) |
| Lectures at 5, omitting Wednesday | | | | Roman Law. Education. Constitutional Law. (Tues. and Fri.) |

LABORATORY HOURS. Second Year: Chemical Laboratory for Men and Women, Monday and Thursday, from 3 to 5; Zoological Laboratory*, Monday and Thursday, Botanical Laboratory†, for Men and Women, Thursday, 4 to 6; Saturday, 11 to 1.

Third and Fourth Years: Chemical Laboratory, Monday, 2 to 5, Wednesday, 3 to 6, Saturday, 9 to 12; Zoological Laboratory*, Monday 2 to 4, and Thursday, 2 to 4; Botanical Laboratory†, Tuesday, 3 to 6, and Friday, 3 to 6; Physics Laboratory, Monday and Tuesday, 2 to 4; Geological Laboratory, Saturday, 9 to 1.

*Before Christmas †After Christmas.

Women students of the Third Year are required to spend one hour a week in the gymnasium.

# EXAMINATION TIME TABLES.

## Faculty of Arts.

### Exhibition, Scholarship and Supplemental Examinations, September, 1911.

| DATE. | Hour. | Supp. to First Year Sessional. | Second Year Exhibitions. | Supp. to Second Year Sessional. | Scholarships (Third Year). | Supp. to Third Year Sessional.* |
|---|---|---|---|---|---|---|
| Thursday.....21 | 9 | English Literature. | English Literature (Shakspere); History. | English Literature. | English Literature (Shakspere and Milton). | English Literature. |
| | 2 | English Composition and History. | English Literature. (Milton, Johnson). | English Composition. | English Literature (Burke & Arnold). | English Composition. |
| Friday.....22 | 9 | Latin Books. | Latin Books. | Latin Books. | Latin Texts. | Latin Books. |
| | 2 | Latin Composition, Sight Translation and History. | Latin Composition, Sight Translation and History. | Latin Composition, Sight Translation, History and Literature. | Latin Composition and Sight, and Roman History. | Latin Composition, Sight Translation, History and Literature. |
| Monday. .....25 | 9 | French. | French Texts. | French. | French Books. | French. Botany. |
| | 2 | French. | German Texts. | French. Semitics | French Composition and Sight. | German. |
| Tuesday.....26 | 9 | Algebra. | Geometry (Major). Geometry and Trigonometry (Minor). | Algebra. | Animal Biology. Analytical Geometry. | Mathematics. |
| | 2 | Trigonometry. | French Comp. and Sight. | Psychology. | German Books. Plant Biology. Logic. | Chemistry. |
| Wednesday...27 | 9 | Greek Books. German. | Greek Books. Algebra (Minor). Algebra, Trigonometry and Theory of Equations (Major). | Greek Books. Logic. German. | Greek Texts. Physics. Psychology. | Greek Books. |
| | 2 | Greek Composition, Sight Translation and History. German | Greek Composition, Sight Translation and History. | Greek Composition, Sight Translation and History. Animal Biology. German. | Chemistry. Greek Composition and Sight and History. Economics. | Greek Composition, Sight Translation, History and Literature. |
| Thursday ... .28 | 9 | Physics. | German Comp. and Sight. | Conics and Solid Geometry. Plant Biology. | Infinitesimal Calculus. German Comp. & Sight. | Political Economy. |
| | 2 | Geometry | Physics. | Chemistry. History and Economics | Economics. Modern History and English Comp. Philosophy. (Berkeley). | Political Science. |

* Periods for other subjects to be arranged at the time of the Examination.

# EXAMINATION TIME TABLES.

## Faculty of Arts.

## Christmas Examinations, 1911.

| | First Year. | Second Year. | Third & Fourth Years. |
|---|---|---|---|
| Thursday, Dec. 14th..P.M. | Trigonometry. | | |
| Friday, Dec. 15th....A.M. | Geometry. | French. | Geology. |
| P.M. | Latin. | Chemistry. Hebrew. | History; Mathematics; German; Botany; Physics. |
| Monday, Dec. 18th...A.M. | French. | Economics. | Economics; Latin; Chemistry; Hebrew; English. |
| " P.M. | English. | Latin. | Philosophy (Ethics); French. |
| Tuesday, Dec. 19th...A.M. | Physics. | Mathematics. Biology. Logic. | Political Science; Zoology |
| " P.M. | Greek | English. | Greek; Psychology; Mechanics. |
| Wednesday, Dec. 20th.A.M. | German. | Greek. | Philosophy (Theory of Knowledge), English. |
| " P.M. | History. | History. | Astronomy. |
| Thursday, Dec. 21st..A.M. | | German. | Education. |

# EXAMINATION TIME TABLES.

## Faculty of Arts.

## SESSIONAL EXAMINATIONS, 1912.

*Morning examinations commence at 9; afternoon examinations at 2.30.*

| Day and Date. | First Year. | Second Year. | Third & Fourth Years. |
|---|---|---|---|
| Wednesday, April 17th. A.M. | | | English Composition. |
| Thursday, April 18th. A.M. | Algebra. | French. | Geology; Sanskrit. |
| " P.M. | Trigonometry. | French. | Geology; Sanskrit. |
| Friday, April 19th. . . . A.M. | Latin. | Chem.; Heb. | Hist.; Math.; German; Botany; Physics. |
| " P.M. | Latin. | Chemistry. | Hist.; Math.; German; Botany; Physics. |
| Monday, April 22nd. . A.M. | French. | Economics. | Econ.; Latin; Chem.; Hebrew; English. (Courses 3B and 4B). |
| " P.M. | French. | History. | Econ.; Latin; Chem.; English (Courses 3B and 4B). |
| Tuesday, April 23rd. . A.M | English. | Latin. | Philosophy (Ethics); French. |
| " P.M. | English. | Latin. | Philosophy (Ethics); French. |
| Wednesday, April 24th. A.M. | Physics. | Algebra; Zoology; Logic. | Political Science; Zoology. |
| " P.M. | History. | Spherical Trigonometry; Botany. | Political Science; Zoology. |
| Thursday, April 25th. . A.M. | Greek. | English. | Greek; Psychology; Mechanics. |
| " P.M. | Greek. | English. | Greek; Psychology. |
| Friday, April 26th. . . . A.M. | German. | Greek. | Philosophy (Theory of Knowledge); English (Courses 4A and 3A); Comparative Philology. |
| " P.M. | German. | Greek. | Philosophy (Theory of Knowledge); English (Courses 4A and 3A); Comparative Philology. |
| Monday, April 29th. . . A.M. | | German. | Education. |
| " P.M. | | German. | Education. |

# ENTRANCE REQUIREMENTS.

All matters regarding matriculation are under the control of a Matriculation Board, which is constituted as follows:

(a) The Heads of all Departments which may include matriculation subjects, *ex-officio.*

(b) The Deans of the several Faculties and the Registrar of the Faculty of Medicine.

(c) Such other members of the teaching staff (or others), as may be appointed annually by Corporation, the Faculty of Arts being given the power, in any emergency, to make an appointment, *pro tempore.*

## I. Regulations.

1. Matriculation examinations (for entrance into all Faculties) are held only in June and September—in June at McGill College and (on application) at local centres; in September, at McGill College and the McGill University College of British Coumbia, in Vancouver and Victoria.

ALL INQUIRIES RELATING TO THE EXAMINATIONS SHOULD BE ADDRESSED TO THE REGISTRAR OF THE UNIVERSITY.

For the convenience of candidates in Great Britain, who are not otherwise qualified for entrance, an examination will be held regularly in London, Eng., each year, commencing on or about the 12th of June. The examination will be held at the City of London School, Victoria Embankment, London, E. C., under the directorship of Dr. J. D. McClure. Full information regarding the exact date of the examination, fee, etc., may be obtained from the Honorary Representative of the University, W. A. Evans, Esq., M.A., Secretary Headmasters' Conference, 12 King's Bench Walk, Temple, London, E.C.

2. Every candidate for examination is required to fill up an application form and return the same with the necessary fee (for which see page 15) one month before the examination begins. Blank forms may be obtained from the Registrar.

*No applications for examination in June will be received after May 20th.*

3. In order to obtain an examination at a local centre, the applicant must, before May 1st, submit to the Registrar the name of some suitable person, preferably a university graduate, who is willing to act as deputy examiner, i.e., receive the questions, hold the examination and forward the answers to Montreal. The University will be responsible for no other local expenses than the payment of the deputy-examiners.

4. The matriculation examination may be taken in two parts, candidates being free to make such a division of the subjects as may best suit their convenience. Credit will be given for any subjects passed at the first attempt, but unless all the requirements are completed, or at least all but two subjects, at the second, the whole will have to be taken over again. For the purposes of this regulation the June and September examinations shall be counted as one.

5. Candidates for entrance to Arts, Applied Science, Law, Music, or Agriculture who fail in a small part only of the whole examination may, if their general standing is sufficiently high, be allowed to enter the First Year as conditioned undergraduates. Those who are conditioned in a language must attend a special tutorial class during their first session, for which a fee of $10 is exigible. Any student, so conditioned, who fails to attend this class with regularity, will not be allowed to present himself for examination. The standing of a conditioned undergraduate will not as a rule be granted to any who have not presented themselves for examination in September, nor to those who have not shown sufficient knowledge of the subject or subjects in which they failed to justify the examiners in making a favourable recommendation. Conditioned undergraduates can obtain full undergraduate standing by passing at a subsequent June or September matriculation examination in the subject or subjects in which they failed and will not be permitted to enter the Second Year of their course of study until they have satisfied all matriculation requirements. In order to be admitted to the Faculty of Medicine a candidate must pass in every subject required.

6. When two or more books or subjects are prescribed for one examination it is necessary to pass in each.

7. A candidate in order to pass must obtain at least 40 per cent. of the total number of marks allowed for each subject.

8. The following certificates and diplomas will, if submitted to the Registrar, be accepted *pro tanto* in lieu of the matriculation examination, *i.e.*, in so far as the subjects and

standard of the examination taken to obtain them are, to the satisfaction of the Matriculation Board, equivalent to those required for the matriculation examination of this University. Candidates offering certificates which are not a full equivalent will be required to pass the matriculation examination in such of the required subjects as are not covered thereby:—

**Province of Quebec.**

The University School Leaving certificate.
The Model School diploma, under certain conditions.

**Province of Ontario.**

Junior and Senior Teachers' certificates.
Junior and Senior Matriculation certificates.

**Province of New Brunswick.**

First Class, Superior and Grammar School licences.

**Province of Nova Scotia.**

The leaving certificates of Grades XI and XII.

**Province of Prince Edward Island.**

First Class Teachers' licences.
Second Year certificates of Prince of Wales College.

**Province of British Columbia.**

Intermediate and Senior Grade certificates.

**Alberta and Saskatchewan.**

The Departmental examination certificates for Standards VII and VIII.

**Newfoundland.**

Associate Grade certificates.

**Great Britain.**

The School and Matriculation certificates of the universities of Oxford, Cambridge and London, and the Leaving examination certificates of the Scotch Education Department.

Applications for exemption from the matriculation examination, based upon certificates of having passed examinations other than those above mentioned, will be considered as

occasion may require by the Matriculation Board. Every such application must be accompanied by certificates and full particulars, and should be addressed to the Registrar.

## II. Matriculation Examination Fees.

| | |
|---|---|
| For the first examination* ..... | $5.00 |
| (For examination at a local centre where not more than two candidates are writing the fee will be determined by the Registrar, provided however, that it shall in no case exceed $12 for each candidate.) | |
| For a subsequent examination in one or two subjects ..... | 2.00 |
| For a subsequent examination in three or more subjects ..... | 3.00 |
| For examination of certificates, in respect of which candidates are exempted from the whole of the matriculation examination ..... | 1.00 |

Matriculation examination fees must be sent to the University Registrar at the time of application for the examination. No application will be accepted unless accompanied by the regular fee.

Certificates will be issued to successful candidates without additional fee.

## III. Subjects of Examination.

### FACULTY OF ARTS.

(*For candidates intending to take the B.A. course.*)

1. **English Composition.**
2. **English Literature.**
3. **History.**
4. **Latin** *or* **Greek.**
5. One of the following:
   **Greek** *or* **Latin** (the one not already chosen),
   **French, German.**
6. **Algebra, Part I.**
7. **Geometry, Part I.**
8. One of the following:
   **Physiography, Botany, Chemistry, Physics, a Language** not already chosen.

---

* In the case of candidates who qualify on certificates, or by other examinations in all but three subjects, or less, the fee will be $3.00.

(*For candidates intending to take the B.Sc. course in Arts.*)

1. **English Composition.**
2. **English Literature.**
3. **History.**
4. **Algebra, Part I.**
5. **Geometry, Part I.**
6. **French.**
7. **Latin** *or* **German** *or* **Physics.**
8. One of the following:
   **Physiography, Botany, Chemistry, Physics** (if not already chosen), **Latin** (if not already chosen), **Greek.**

Candidates who intend ultimately to proceed to the study of Medicine are reminded that for medical registration it is necessary to take Latin.

(*For candidates entering on the course for the Diploma of Commerce.*)

One of the following examinations:—

1. The ordinary matriculation examination for the B.A. or the B.Sc. Course.

2. An examination on the following subjects:—

1. **English Composition.**
2. **English Literature.**
3. **History.**
4. **French,** including oral examination (pass standard 50 per cent.)
5. **Algebra, Part I.**
6. **Geometry, Part I.**
7. **Book-Keeping.**
8. One of the following, viz:
   **Physiography, Botany, Chemistry, Physics.**

Holders of Model School diplomas who are certified by the Head of the School of Education of Macdonald College to have taken 75 per cent. of the total marks at their final examinations, with not less than 50 per cent. of the marks in (1) mathematics, (2) French, and (3) Latin or Greek, respectively, will be admitted without further examination as undergraduates of the First Year in Arts.

## IV. Requirements in Each Subject.

### English Grammar.

Main facts in connection with the history of the language; etymology and syntax. A good knowledge of parsing and analysis is essential. West's English Grammar for Beginners is recommended as a text-book.

One examination paper of an hour and three-quarters.

### History and Geography.

Candidates will be required to show a somewhat intimate acquaintance with the history of England, from 1485 to the present time. While any text-book written for the upper forms of schools may be used in preparation for the examination, Gardiner's Outline of English History (Longmans) is recommended.

The geography required will be that relating to the history prescribed.

One examination paper of two hours.

### Arithmetic.

All the ordinary rules, including square root, and a knowledge of the metric system.

One examination paper of two hours.

### English.

*Composition.*

As in Sykes's Elementary Composition, with an essay on some subject connected with the works prescribed in literature. Frequent practice in composition is essential.

*Literature.*

1911 and 1912.—Any two of the following: Shakspere's Julius Cæsar; Nineteenth Century Prose (ed. Cunliffe), pp. 127 to the end, with notes (Copp, Clark Co.); Poems of the Romantic Revival (Copp, Clark Co.), pages 83 to the end, with notes; Tennyson's Select Poems, editor Alexander (Copp, Clark Co.).

Two examination papers of two hours each.

An alternative paper will be set on the work specified in English for the Junior matriculation examination of the Province of Ontario.

Spelling will be tested by the candidates' papers in English Composition and Literature. Examiners in other subjects will also take note of mis-spelled words and will report flagrant cases to the Board.

**Greek.**

For 1911 and 1912—

*Texts.*—Xenophon, Anabasis, Book 1, Chaps. 1 to 8.

*Grammar.*—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

*Translation at Sight* from Greek into English.

*Composition.*—Translation into Greek of detached English sentences and easy narrative based on the prescribed texts.

Two papers of two hours each will be set; one on composition and translation at sight, the other on prescribed texts and grammar.

Alternative questions will be set on the work prescribed in Greek for the Junior matriculation examination of the Province of Ontario, if this differs from that specified above.

At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

**Latin.**

For 1911 and 1912—

*Texts.*—Cæsar, De Bello Gallico, Book IV, Chap. 20 to the end, and Book V; Ovid, Stories from the Metamorphoses (as in Gleason's "A Term of Ovid," American Book Company), lines 1 to 670.

*Grammar.*—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

*Translation at Sight* from Latin into English.

*Composition.*—Translation into Latin of detached English sentences and easy narrative based on the prescribed texts.

Two papers of two hours each will be set; one on composition and translation at sight, the other on prescribed texts and grammar.

Note.—The Roman method of pronouncing Latin is recommended.

An alternative paper will be set on the Latin texts prescribed for the Junior matriculation examination of the Province of Ontario, if these differ from those specified above.

At the September examination other texts in Latin equivalent to those specified may be accepted, if application be made to the Registrar at least a month before the day of the examination.

**French.**

*Grammar.*—A thorough knowledge of French accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

*Translation at Sight* into English of a French passage of moderate difficulty.

*Translation at Sight* into French of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of French Grammar. Candidates are required to pass in English-French translation as well as in the paper as a whole.

Books recommended:—Bertenshaw's French Grammar (Longmans), and Cameron's Elements of French Prose Composition (Holt & Co.).

One examination paper of two hours.

**German.**

*Grammar.*—A thorough knowledge of German accidence and of the syntax of the topics treated in Lessons 46, 47, 57, 58, 59 and 60 of the Joynes-Meissner Grammar, and as presented in the Joynes-Meissner, Van der Smissen, or any other German Grammar of equally good standing.

*Translation at Sight* into English of a German passage of moderate difficulty.

*Translation into German* of detached English sentences and of an easy English passage. Material for such translation is selected with a view to exemplifying the points of grammar included within the above limits.

TEXTS.—(Translation and grammatical study):—

For 1911 and 1912.—Volkmann, Kleine Geschicten (Heath & Co.); Stille Wasser, ed. Bernhardt (Heath & Co.). It is recommended that candidates should read the prescribed texts in the above order, beginning in Volkmann's Kleine Geschicten with Himmelsschlüssel and Siebenmeilenstiefel.

The Ontario Junior matriculation requirements in German will be accepted in place of the texts specified above.

At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

One examination paper of two hours.

### Algebra, Part I.

Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities; as in Hall and Knight's Elementary Algebra to the end of surds (omitting portions marked with an asterisk), or as in similar text-books.

One examination paper of two hours.

### Geometry, Part I.

Euclid's Elements, Books I, II, III, with easy deductions; or an equivalent.*

An alternative paper will be set on the Ontario Junior matriculation requirements in this subject.

One examination paper of two hours.

In 1913 and thereafter the requirements for the examination in Geometry, Part I, shall be as follows:—

The paper shall contain questions on practical and on theoretical geometry. Every candidate shall be expected to answer questions in both branches of the subject.

The questions on practical geometry shall be set on the constructions contained in the annexed Schedule A, together with easy extensions of them. In cases where the validity of a construction is not obvious, the reasoning by which it is justified may be required. Every candidate shall provide himself with a ruler graduated in inches and tenths of an inch, and in centimetres and millimetres, a set square, a protractor, compasses and a hard pencil. All figures should be drawn accurately. Questions may be set in which the use of the set square or of the protractor is forbidden.

The questions on theoretical geometry shall consist of theorems contained in the annexed Schedule B, together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition shall be accepted which appears to

---

*The text-book at present used in McGill University, and also authorized for use in the schools of the Province of Quebec, is Hall and Stevens' Euclid (Macmillan & Co.). Teachers will find Godfrey and Siddons' Elementary Geometry and Hall and Stevens' School Geometry useful adjuncts as far as regards practical applications.

the examiners to form part of a systematic treatment of the subject; the order in which the theorems are stated in Schedule B is not imposed as the sequence of their treatment.

In the proof of theorems and deductions from them, the use of hypothetical constructions shall be permitted. Proofs which are only applicable to commensurable magnitudes shall be accepted.

### Schedule A.

Bisection of angles and of straight lines.

Construction of perpendiculars to straight lines.

Construction of an angle equal to a given angle.

Construction of parallels to a given straight line.

Simple cases of the construction from sufficient data of triangles and quadrilaterals.

Division of straight lines into a given number of equal parts or into parts in any given proportions.

Construction of a triangle equal in area to a given polygon.

Construction of tangents to a circle and of common tangents to two circles.

Simple cases of the construction of circles from sufficient data.

Construction of a fourth proportional to three given straight lines and a mean proportional to two given straight lines.

Construction of regular figures of 3, 4, 6 or 8 sides in or about a given circle.

Construction of a square equal in area to a given polygon.

### Schedule B.

If a straight line stands on another straight line, the sum of the two angles so formed is equal to two right angles; and the converse.

If two straight lines intersect, the vertically opposite angles are equal.

When a straight line cuts two other straight lines, if (i) a pair of alternate angles are equal, or (ii) a pair of corresponding angles are equal, or (iii) a pair of interior angles on the same side of the cutting line are together equal to two right angles, then the two straight lines are parallel; and the converse.

Straight lines which are parallel to the same straight line are parallel to one another.

The sum of the angles of a triangle is equal to two right angles.

If the sides of a convex polygon are produced in order, the sum of the angles so formed is equal to four right angles.

If two triangles have two sides of the one equal to two sides of the other, each to each, and also the angles contained by those sides equal, the triangles are congruent.

If two triangles have two angles of the one equal to two angles of the other, each to each, and also one side of the one equal to the corresponding side of the other, the triangles are congruent.

If two sides of a triangle are equal, the angles opposite to these sides are equal; and the converse.

If two triangles have the three sides of the one equal to the three sides of the other, each to each, the triangles are congruent.

If two right-angled triangles have their hypotenuses equal, and one side of the one equal to one side of the other, the triangles are congruent.

If two sides of a triangle are unequal, the greater side has the greater angle opposite to it: and the converse.

Of all the straight lines that can be drawn to a given straight line from a given point outside it, the perpendicular is the shortest.

The opposite sides and angles of a parallelogram are equal, each diagonal bisects the parallelogram, and the diagonals bisect one another.

If there are three or more parallel straight lines, and the intercepts made by them on any straight line that cuts them are equal, then the corresponding intercepts on any other straight line that cuts them are also equal.

Parallelograms on the same or equal bases and of the same altitude are equal in area.

Triangles on the same or equal bases and of the same altitude are equal in area.

Equal triangles on the same or equal bases are of the same altitude.

Illustrations and explanations of the geometrical theorems corresponding to the following algebraical identities:

$$\begin{aligned} k\,(a + b + c \ldots) &= ka + kb + kc + \ldots . \\ (a + b)^2 &= a^2 + 2ab + b^2 \quad \ldots . \\ (a - b)^2 &= a^2 - 2ab + b^2 \quad \ldots . \\ (a^2 - b^2) &= (a + b)\,(a - b). \end{aligned}$$

The square on a side of a triangle is greater than, equal to, or less than the sum of the squares on the other two sides, according as the angle contained by those sides is obtuse, right, or acute. The difference in the cases of inequality is twice the rectangle contained by one of the two sides and the projection on it of the other.

The locus of a point which is equidistant from two fixed points is the perpendicular bisector of the straight line joining the two fixed points.

The locus of a point which is equidistant from two intersecting straight lines consists of the pair of straight lines which bisect the angles between the two given lines.

A straight line, drawn from the centre of a circle to bisect a chord which is not a diameter, is at right angles to the chord; conversely, the perpendicular to a chord from the centre bisects the chord.

There is one circle, and one only, which passes through three given points not in a straight line.

In equal circles (or, in the same circle) (i) if two arcs subtend equal angles at the centres, they are equal; (ii) conversely, if two arcs are equal, they subtend equal angles at the centres.

In equal circles (or, in the same circle) (i) if two chords are equal, they cut off equal arcs; (ii) conversely, if two arcs are equal, the chords of the arcs are equal.

Equal chords of a circle are equidistant from the centre; and the converse.

The tangent at any point of a circle and the radius through the point are perpendicular to one another.

If two circles touch, the point of contact lies on the straight line through the centres.

The angle which an arc of a circle subtends at the centre is double that which it subtends at any point on the remaining part of the circumference.

Angles in the same segment of a circle are equal; and, if the line joining two points subtends equal angles at two other points on the same side of it, the four points lie on a circle.

The angle in a semicircle is a right angle; the angle in a segment greater than a semicircle is less than a right angle; and the angle in a segment less than a semicircle is greater than a right angle.

The opposite angles of any quadrilateral inscribed in a circle are supplementary; and the converse.

If a straight line touch a circle, and from the point of contact a chord be drawn, the angles which this chord makes with the tangent are equal to the angles in the alternate segments.

If two chords of a circle intersect either inside or outside the circle the rectangle contained by the parts of the one is equal to the rectangle contained by the parts of the other.

If a straight line is drawn parallel to one side of a triangle, the other two sides are divided proportionally; and the converse.

If two triangles are equiangular their corresponding sides are proportional; and the converse.

If two triangles have one angle of the one equal to one angle of the other and the sides about these equal angles proportional, the triangles are similar.

The internal bisector of an angle of a triangle divides the opposite side internally in the ratio of the sides containing the angle, and likewise the external bisector externally.

The ratio of the areas of similar triangles is equal to the ratio of the squares on corresponding sides.

TEXT-book recommended for the present:—Godfrey and Siddons' Elementary Geometry (Pitt Press, Cambridge), or Hall and Stevens' School Geometry.

### Physiography.

The elements of the science, as in Davis's Elementary Physical Geography, or any other text-book covering the same ground.

One examination paper of an hour and a half.

### Botany.

Text-book to be selected.

One examination paper of an hour and a half.

### Chemistry.

Elementary inorganic chemistry, comprising the preparation and properties of the chief non-metallic elements and their more important compounds, the laws of chemical action,

combining weight, etc. The ground is simply and effectively covered by Remsen's "Elements of Chemistry," pp. 1 to 165 and 218 to 243. (Macmillan's Edition.)

One examination paper of an hour and a half.

**Physics.**

Properties of matter; elementary mechanics of solids and fluids, including the laws of motion, simple machines, work, energy; fluid pressure and specific gravity; thermometry, the effects and modes of transmission of heat.

Text-books recommended—Gage's Introduction to Physical Science, 1902 edition (Ginn & Co.), Chaps. I. to IV., inclusive; or Elementary Physics and Chemistry, Stages II. and III., by Gregory & Simmons.

One examination paper of an hour and a half.

## V. Dates of the Examinations.

The examinations in 1911 will commence on Monday, June 12th, and on Thursday, September 21st. Special arrangements may be made for the examination of candidates who are prevented by severe illness or domestic affliction from presenting themselves on the dates fixed.

## MATRICULATION EXAMINATION TIME TABLE.

SEPTEMBER, 1911.

THURSDAY, SEPTEMBER 21ST.

| | |
|---|---|
| Morning | 9–11.—English Grammar. |
| | 11–1.—English Literature. |
| Afternoon | 2.30–4.30.—English Composition. |
| | 4.30–6.30.—History |

FRIDAY, SEPTEMBER 22ND.

| | |
|---|---|
| Morning | 9–11.—Latin Authors. |
| | 11–1.—Arithmetic. |
| Afternoon | 2.30–4.30.—Latin Composition and Sight. |

MONDAY, SEPTEMBER 25TH.

| | |
|---|---|
| Morning | 9–11.—French. |
| | 11–12.30.—Trigonometry. |
| Afternoon | 2.30–4.30.—German. |
| | 4.30–6.—Chemistry and Botany. |

TUESDAY, SEPTEMBER 26TH.

| | |
|---|---|
| Morning | 9–11.—Geometry, Part I. |
| | 11–12.30.—Physics and Physiography. |
| Afternoon | 2.30–4.15.—Algebra, Part II. |

WEDNESDAY, SEPTEMBER 27TH.

| | |
|---|---|
| Morning | 9–11.—Algebra, Part I. |
| | 11–1.—Greek Authors. |
| Afternoon | 2.30–4.15.—Geometry, Part II. |
| | 4.15–6.15—Greek Composition and Sight. |

### VI. Admission to Advanced Standing.

(1) *Entrance to Second Year Arts.*

Admission to the Second Year in Arts is open, as a rule, only to undergraduates who have passed the First Year Sessional Examination in regular course, but in special cases, to be dealt with by the Faculty, candidates may be admitted directly to the Second Year without having passed through the curriculum of the First Year.

### (2).—*Admission Ad Eundem Statum.*

Any student of another university applying for exemption from any subject or subjects which he has already studied is required to submit with his application a complete statement of the course he has followed, together with a certificate of the standing gained therein.

The Faculty, if otherwise satisfied, will decide what examination, if any, or what conditions may be necessary before admitting the candidate.

Undergraduates in Arts of the Second and Third Years, or graduates in Arts of any university, entering the Faculty of Applied Science, may at the discretion of the Faculty, be exempted from such lectures as they have previously attended as students in Arts.

## VII. Physical Examination.

In order to promote as far as possible the physical welfare of the student body, every student, on entering the University will be required to pass a physical examination to be conducted by, or under the direction of, the Medical Director of Physical Education or by a recognized representative.

By such an examination physical defects and weaknesses, amenable to treatment, may be discovered. The student would then be expected to apply to his physician for such remedial measures as his case may require.

Students would also be advised as to the forms of exercise or athletic activities which would likely be beneficial or injurious.

## CLASSES OF STUDENTS.

There are four classes of students in the University:—

(1) Graduates—students who have previously obtained an ordinary degree at McGill, or elsewhere, and who are now pursuing courses for the Master's degree (in Arts or Applied Science), or for the degree of Ph.D.

(2) Undergraduates—students who have passed the matriculation examination and, in the case of second, third and fourth year students, all the examinations of their course in the years below that in which they are registered.

(3) Conditioned Undergraduates—those with defective entrance qualifications or who have failed in one or more of the subjects of their course in the year previous to that in which they are registered.

(4) Partial Students—comprising all those who, not belonging to one of the above classes, are taking a partial course of study in the University. Except as provided below, such students may (subject to the approval of the Head of the Department and the Dean or the Committee appointed for this purpose) attend any class without previous examination.
In order to obtain admission to the First Year classes in French, intending students must have passed the University matriculation examination, or an equivalent examination, in that subject.

Except under special circumstances no student under the age of sixteen is admitted to the First Year courses in Arts, Applied Science or Medicine, or under the age of seventeen to the Second Year, and no student under the age of seventeen is admitted to the course in Law.

All students are required to attend lectures at the University, in Montreal, at Macdonald College (for the courses in Agriculture), or at one of the affiliated colleges.

# REGISTRATION AND ATTENDANCE.

## 1. Registration.

1. All candidates entering the Faculty of Arts for the session 1911-1912 are required to register at the office of the University Registrar, between September 25th and September 28th, 1911, or in the William Molson Hall, on September 29th. The act of registration consists in giving such information of a personal nature as may be necessary for the University records, of registering for the several classes which are to be taken during the session and of subscribing to the following declaration in the Matricula or Register:—

"I hereby accept and submit myself to the statutes, rules, regulations and ordinances of McGill University, and of the Faculty or Faculties in which I am registered, and to any amendments thereto which may be made while I am a student of the University, and I promise to observe the same."

2. Before the close of each session, or, at the latest, within one week of the opening of the next, students enrolled in the Faculty of Arts are required to choose their electives for the following year. They are moreover required, at the commencement of the following session, to register formally for the subjects then selected. For the session 1911-1912, they will register as follows:—Between September 25th and September 28th, at the Registrar's Office; on September 30th, *men*, in the William Molson Hall, *women*, in the Royal Victoria College.

3. Students who for any reason have failed to register at the times specified above will be permitted to do so at the Registrar's Office within a limited time thereafter.

4. The names of those who have registered for the separate classes shall be sent by the Registrar to the Heads of Departments on registration day, and subsequently, as new names are received, and only those for whom cards have been received by an instructor shall be admitted to his class; except in the case of students whose standing cannot be determined at the time of registration. To these, special tickets will be issued which will give them the right of admission to classes until such time as their status can be ascertained.

5. Students desiring to make a change in their choice of studies must make application to the Registrar to do so, on a regular form. This application must be approved by the

Dean of the Faculty, whereupon due notice will be sent by the Registrar to all parties concerned. No change in registration will be allowed, except under special circumstances, after the fifteenth day of the Session.

6. Persons who wish to pursue courses in the University without a view to qualifying for a degree shall be classified as partial students and shall not be admitted to any course until they have obtained the permission of the Head of the Department concerned. Their application must then be approved by the Dean of the Faculty or the committee appointed for this purpose.

## 2. Attendance.

Excuses on the ground of illness or domestic affliction shall be dealt with only by the Deans of the respective Faculties.

1. Students are required to attend at least seven-eighths of the total number of lectures in any one course. Those whose absences exceed one-eighth of the total number of lectures in a course shall not be permitted to come up for the examination in that course.

2. A record shall be kept by each Professor or Lecturer, in which the presence or absence of students shall be carefully noted. This record shall be submitted to the Faculty when required.

3. Credit for attendance on any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. In the case last mentioned, the student may, at the discretion of the Professor, be required to leave the room. Persistence in any of the above offences against discipline shall, after admonition by the Professor, be reported to the Dean of the Faculty concerned. The Dean may, at his discretion, reprimand the student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend from classes.

4. The following special regulation with regard to marking the attendance of students has been adopted by the Faculty of Arts:—

Lectures shall commence at five minutes after the hour, on the conclusion of the roll-call, and students failing to answer to their names shall be marked "absent," unless they report themselves at the close of the lecture, in which case they shall be marked "late" and given such credit for attendance as the Faculty may deem advisable. Lectures shall end at five minutes before the hour.

## BOARD AND RESIDENCE.

No college residences have as yet been erected for men students, but dormitory accommodation for about 60 is provided in Strathcona Hall, the new home of the McGill Y.M.C.A. Full particulars concerning terms of residence, etc., may be obtained from the Secretary of the Association, 348 Sherbrooke St. West, Montreal, who will also make arrangements to have students who are strangers to the City met on arrival and helped to secure lodgings, if due notice is sent of the station and time at which they will arrive.

The erection of suitable University residential halls for men is contemplated in the near future.

Women students may board and reside either in private houses or in the Royal Victoria College, which provides, in addition to separate lecture rooms, residential accommodation for the women students of the University.

The expense of board and residence for the Session in the Royal Victoria College varies from $351 to $411, according to the position of the rooms. Students who do not remain over for the summer classes receive a deduction of $50 from the regular charge. Further particulars will be furnished by the Warden.

Good board and lodging can be obtained in private houses in the vicinity of the University buildings at a cost of from $21 and upwards per month; or, separately, board at $14 to $20 per month, rooms from $7 to $14 per month.

A list of suitable boarding and lodging houses, the sanitary conditions of which are required to be properly certified, is prepared about a fortnight before the opening of the Session each year, and may be obtained upon application to the Registrar of the University.

Excellent board is furnished in the McGill Union for twenty dollars per month. The dining room, which is a special feature of the Union, will accommodate over 120 students at a time. There is also a lunch counter where meals are served *à la carte*.

## APPROXIMATE ESTIMATE OF STUDENTS' EXPENSES PER SESSION.

FACULTY OF ARTS.

| | Minimum | Moderate |
|---|---|---|
| Tuition Fees ..... | $ 61 | $ 61 |
| Board and Lodging ..... | 140* | 175 |
| Books and Apparatus ..... | 10 | 15 |
| | $211 | $251 |

Other necessary expenses during attendance at the University will vary from about $50 per session, as a minimum, to about $75 as a moderate estimate.

* Undergraduates residing in affiliated Theological Colleges, with a view to a course in Theology, are able to obtain board and lodging for considerably less than the figure here given.

# RAILWAY RATES.

## (1). Rates for Summer Vacations.

After April 15th, and up to June 30th, single fare return tickets will be issued to students of McGill University, on presentation of standard vacation certificates signed by the Principal or Registrar of the University, between Montreal and any station on the Intercolonial Railway in Quebec, and to any point in the Maritime Provinces, which is reached by either the Intercolonial or the Canadian Pacific Railways. These tickets will be good for return up to October 1st.

## (2). Special Rates for Students from the West.

Between any station in Canada on the Canadian Pacific Railway and Montreal, where the one way regular first-class rate is $20.00, or more, one way continuous passage tickets will be issued at half the regular first-class one way fare, minimum rate to be charged $20.00. For example, if the first-class one way rate is $50.00, $25.00 will be charged, but if the one way rate is less than $40.00, $20.00 will be collected. In order to obtain this rate, students (intending students as well as those in attendance) will be required to present a special certificate signed by the Principal or Registrar of the University. The certificates referred to can be obtained at the Registrar's Office.

# SCHOLARSHIPS AND EXHIBITIONS IN ARTS.

## GENERAL REGULATIONS.

(The following scheme of Scholarships and Exhibitions in Arts may be revised at the commencement of the session 1911-12. Particulars of changes made, if any, can be obtained at the Registrar's Office after December 1st, 1911.)

1. No student can hold more than one Exhibition or Scholarship at the same time.

2. Exhibitions and Scholarships will not necessarily be awarded to the candidates who have obtained the highest marks. An adequate standard of merit will be required.

3. If in any College Year there be not a sufficient number of candidates showing adequate merit, any one or more of the Exhibitions or Scholarships offered for competition may be given to more deserving candidates in another Year.

4. A successful candidate must, in order to retain his Scholarship or Exhibition, proceed regularly with his college course to the satisfaction of the Faculty.

5. The annual income of the Scholarships or Exhibitions will be paid in four instalments, viz.:—In October, December, February and April, about the 20th day of each month.

## EXHIBITIONS AVAILABLE IN ARTS.

*The Jane Redpath Exhibition*, founded by the late Mrs. Redpath of Terrace Bank, Montreal:—value, about $90, open to both men and women.

*Ten Macdonald Scholarships and Exhibitions*, founded by Sir W. C. Macdonald, Montreal:—value $125 each.

*The Charles Alexander Scholarship* (for men students), founded by the late Charles Alexander, Esq., Montreal, for the encouragement of the study of Classics and other subjects:—value $90.

*The Major H. Mills Scholarship*, founded by bequest of the late Major Hiram Mills:—value $100.

*The Barbara Scott Scholarship*, founded by the late Miss Barbara Scott, Montreal, for the encouragement of the study of the Classical languages and literature:—value $100 to $120.

*Four Mackenzie Scholarships*, for Economics and Political Science, founded in memory of the late Hon. Alexander Mackenzie:—value, $50 to $100. (For particulars see page 41.)

*One of The Rev. Samuel Massey Exhibitions,* founded by Mr. George Massey, in memory of his late father, Rev. Samuel Massey:—value $62.50.

FIRST YEAR EXHIBITIONS IN ARTS.

1. *Exhibition for Holders of Model Diploma from Macdonald College.*

An Exhibition of $150 is offered annually in the Faculty of Arts to holders of Model Diplomas under the following conditions:—

(1) Candidates must apply through the Head of the School for Teachers of Macdonald College, before May 1st.

(2) They must satisfy the entrance requirements of the Faculty of Arts, and declare their intention to proceed to a First Class Academy Diploma, following the course prescribed by the University.

The Exhibition will be awarded on the academic subjects of the examination for the Model Diploma; but although the practice marks will not be taken into account directly, the opinion of the Macdonald College staff as to the general fitness of the applicant for a University course will have some weight. In case there is no applicant from the graduating class in any year, applications from graduates of previous years will be considered on their merits.

Holders of this Exhibition will be permitted to count practice teaching and post-graduate work towards the fulfilment of their agreement to teach for a period of three years in the Province of Quebec.

2. *Matriculation Exhibitions.*

The following Exhibitions, which will be awarded for general proficiency on the result of the matriculation examination, will be offered for competition in June, 1911, to candidates for admission to the First Year:—

Seven, of the value of $100 each—five for those intending to take the B.A. Course and two for candidates who propose to enter on the B.Sc. Course, in Arts—(open to both men and women); and two (open to women only and conditional on residence in the Royal Victoria College), one of $200 and one of $100.

For the Matriculation Exhibitions the value attached to each subject is as follows:—

| | | |
|---|---|---|
| Language subjects ..... | 100 | Marks. |
| Mathematical subjects ..... | 100 | " |
| English ..... | 75 | " |
| Science subjects ..... | 50 | " |

The P. S. Ross Exhibition of $100.00 founded by Mr. P. D. Ross, B.A.Sc., in memory of his late father, Mr. P. S. Ross, and given through the Ottawa Valley Graduates' Society, will be awarded annually to the candidate from the Ottawa Valley for entrance to any Faculty, who obtains the highest percentage at the June matriculation examination.

3. *Advanced Exhibitions and Scholarships.**

These Exhibitions and Scholarships will be awarded on the result of an examination held at the close of the Matriculation Examination in June, 1911, and also in 1912, on any three of the following subjects:—

English.
Latin.
Greek.
French.
German.
Mathematics.

Provided, however, that no award will be made to a candidate who has not obtained first-class standing at the University Matriculation Examination or at an examination which is accepted as its equivalent. For scope of examination in each subject see below.

Five Exhibitions are offered, of the value of $150 each, and three Scholarships, tenable for two years of the value of $150 each per year.

The Scholarships shall be awarded to the three candidates (otherwise qualified) who take the highest standing in the examination, and the tenure of the Scholarship for the second year shall be contingent on the holder obtaining a first class standing in the sessional examinations of the First Year, or, in

* A Scholarship is tenable for *two* years; an Exhibition for *one* year.

the case of those who obtain first class in an advanced course, a standing not lower than second class in any subject.

One or more additional advanced Exhibitions may be awarded should the number of candidates who attain a sufficiently high standard for Scholarships be less than three.

Every candidate for a First Year Exhibition or Scholarship shall, on application for examination, sign a declaration to the effect that he intends to proceed to a degree in Arts in this University. Blank forms of application, to be obtained from the Registrar, must be filled out and returned before the first of May preceding the examination.

The subjects for the Advanced Exhibitions are of equal value.

### Requirements in each Subject.

The details of the work required in the subjects for Advanced Exhibitions (any three of which may be chosen, as stated above) are as follows:

#### English

LANGUAGE, 1911 and 1912.—The Making of English, by Henry Bradley (Macmillan).

LITERATURE, 1911 and 1912.—Poems of the Romantic Revival (Copp, Clark Co.) pp. 83-200, with Introduction and Notes; Macaulay, Essays on Byron, Warren Hastings, Clive.

COMPOSITION.—The candidate will be required to write an essay on some subject connected with the examination.

#### Latin.

Grammar; translation at sight; prose composition.

Translation from and questions on the following texts:

1911 and 1912.—Virgil, Aeneid, Book II; Cicero, in Catilinam I and II.

#### Greek.

Grammar; translation at sight; prose composition.

Translation from and questions on the following texts:

1911 and 1912.—Homer, Iliad VI; Lucian, Charon.

#### French.

(*a*) Grammar, including syntax; (*b*) translation at sight from French into English; (*c*) translation at sight of easy English prose passages into French; (*d*) translation from the following texts:—

1911 and 1912.—Augier, Le Gendre de M. Poirier (Heath & Co.); DeVigny, La Canne de Jonc (Heath & Co.); Sand, La Mare au Diable (Ginn & Co.).

## German.

(*a*) Grammar.—accidence and syntax; (*b*) translation at sight from German into English; (*c*) translation at sight into German of an easy passage of English prose; (*d*) translation and grammatical study of the following texts:

1911 and 1912.—Fouqué, Undine (Holt); Chamisso, Peter Schlemihl (Holt); Keller, Kleider machen Leute (Heath).

## Mathematics.

GEOMETRY.—Euclid's Elements, Books IV and VI, with definitions of Book V, and easy deductions.*

ALGEBRA.—The three progressions, ratio, proportion, variation, permutations and combinations, binomial theorem, logarithms, theory of quadratic equations, as in Hall & Knight's Elementary Algebra (omitting Chapters 40-43 inclusive), or as in similar text-books.

TRIGONOMETRY.—Measurements of angles, trigonometrical ratios of functions of one angle, of two angles, and of a multiple angle, as in Lock's Elementary Trigonometry, Chapters I to XII; Hall & Knight's Trigonometry, Chaps. I to XII inclusive, omitting Chap. V; or as in similar text books.

### SECOND YEAR EXHIBITIONS IN ARTS.†

Six Exhibitions, ranging in value from $100 to $150 each, will be offered for competition to students entering the Second Year, in September, 1911:—

The subjects of examination are divided into two groups as follows:—

Group I.—Greek, Latin, French, German, English.

Group II.—Mathematics, Physics.

Candidates are required to offer two major subjects and one minor subject. The two major subjects must be selected from the same group, the minor subject from either group, the examination in the major subject being more extensive than that in the same subject presented as a minor subject. Two Exhibitions of $150 each and two of $100 each are offered

---

* The text-book at present used in McGill University and also authorized for use in the schools of the Province of Quebec, is Hall & Stevens' Euclid (Macmillan & Co.). Teachers will find Godfrey & Siddons' Elementary Geometry and Hall & Stevens' School Geometry useful adjuncts as far as regards practical applications.

† Second Year Exhibitions are open to students who have passed the First Year sessional examinations, provided that not more than two sessions have elapsed since their matriculation; and also to candidates for entrance into the Second Year. The Second Year Exhibition examination will, for candidates who have not previously entered the University, be regarded as a matriculation examination *pro tanto*.

to candidates taking their major subjects from Group I, and one Exhibition of $150 and one of $100 to candidates taking their major subjects from Group II

The above Exhibitions are open to all undergraduates in Arts, whether they are taking the B.A. or the B.Sc. course.

## Requirements in each Subject.

### Greek.

*(As a Major Subject.)*

I. (*a*) Plato, Crito (Pitt Press).
(*b*) Euripides, Hecuba (Hadley, Pitt Press).
II. Composition and Translation at Sight.
III. History:—Morey's "Outlines of Greek History with a Survey of Ancient Oriental Nations" (American Book Company).

*(As a Minor Subject.)*

The same as above, omitting I (*b*) and III.

### Latin.

*(As a Major Subject.)*

I. (*a*) Cicero, pro Lege Manilia (Wilkins, Macmillan).
(*b*) Virgil, Bucolica (Sidgwick, Pitt Press), omitting the 2nd and 3rd Eclogues.
II. Composition and Translation at Sight.
III. Roman History:—From the First Punic War to the death of Sulla.

*(As a Minor Subject.)*

The same as above, omitting I (*b*) and III.

### French.

*(As a Major Subject.)*

(*a*) Grammar; (*b*) translation at sight of an English passage into French; (*c*) French essay on a prescribed subject; (*d*) translation of passages taken from the prescribed texts; (*e*) a critical study of the following texts, tested by questions in the French language to be answered in French:—

Corneille, Cinna (Holt); Molière, Le Malade Imaginaire (Macmillan); Thiers, Expedition de Bonaparte en Egypt (Holt); France, Le Crime de Sylvestre Bonnard (Holt).

*(As a Minor Subject.)*

The same as above, omitting Molière and Thiers.

### German.

*(As a Major Subject.)*

(*a*) Grammar; (*b*) translation at sight from German into English, and from English into German; (*c*) the life of Schiller and a critical study and translation of the following texts:—

Schiller, Die Piccolomini (Pitt Press); Kleist, Michael Kohlhaas (Holt); Fulda, Talisman (Heath).

(*As a Minor Subject.*)

The same as above, omitting Schiller.

### English and History.

(*As a Major Subject.*)

*Literature.*—Shakespere, Macbeth (ed. Deighton, Macmillan); Milton, Comus (ed. Bell, Macmillan); Johnson, Lives of Dryden and Pope (ed. Milnes, Clarendon Press Series).
*History.*—Church, Middle Ages..

(*As a Minor Subject.*)

The same as above, omitting Comus and Lives of Dryden and Pope.

### Mathematics.

(*As a Major Subject.*)

*Plane Geometry.*—Ordinary and advanced section courses of the First Year.
*Algebra.*—Selected course from Chaps. I.-XXXII. of Hall and Knight's Higher Algebra.
*Theory of Equations.*—Selected course from Burnside and Panton.
*Plane Trigonometry.*—As in the ordinary and advanced courses of the First Year.

(*As a Minor Subject.*)

The Mathematics of the First Year ordinary course.

### Physics.

(*As a Major Subject.*)

The Theory of Physics. J. S. Ames (Harper & Bros.).

(*As a Minor Subject.*)

A Text-book of Physics. Millikan & Gale (Ginn & Co.).

#### THIRD YEAR SCHOLARSHIPS IN ARTS.*

The following five Scholarships, of the annual value of $150 each, will be open for competition to students entering the Third Year in September, 1911:—
One for English and another language.

* Third Year Scholarships and Exhibitions are open to students who have passed the Second Year sessional examination, provided that not more that three sessions have elapsed since their matriculation; and also to candidates who have obtained what the Faculty may deem equivalent standing in some other university, provided that ap-

One for Latin or Greek and another language† (English excepted).

One for French or German and another language† (English excepted).

Two for Mathematics and Physics.

In addition to the above Scholarships, the three following Exhibitions, of the value of $150.00 each, are also offered for competition to students entering the Third Year:—

One for Philosophy.

One for Chemistry and Physics.

One for Biology.

A Bursary of $25 will be awarded to that one of the holders of these three Exhibitions who is considered most deserving on entering the Fourth Year.

An exhibition of $50, to be known as the Hannah Willard Lyman Exhibition, will also be awarded annually in the Fourth Year, to the best woman student who may have been the holder of a Third Year Exhibition in biology or chemistry or philosophy. Should there be no sufficiently deserving candidate, this Exhibition may be awarded at the beginning of the Third Year to a woman candidate who may fail to obtain one of the five regular Scholarships offered to Third Year students.

Of the two Third Year Scholarships assigned to mathematics and physics, one is open to women only, the other to men only. Should, however, no candidate be eligible for the scholarship open to men only, it may be awarded to a woman.

In the award of Third Year Scholarships, the Second Year standing of candidates, in the subjects selected, will be taken into account.

In the event of no candidate of sufficient merit presenting himself, the Scholarship assigned to any group of subjects may, at the discretion of the Faculty, be awarded in another group, whether a scholarship has been already assigned to that group or not.

---

plication be made before the end of the session preceding the examination. Double course students (Arts and Applied Science or Arts and Medicine) are not eligible for these Scholarships.

† The language not chosen in the first instance may be taken as the second language.

*Mackenzie Exhibitions*:—

Four Exhibitions, known as the Mackenzie Exhibitions, are awarded annually in the Department of Economics and Political Science. Two of these, of the value respectively of $100 and $50, tenable for one year, are awarded on the result of a special examination (see page 43), held in September, and open to students who have completed the work of the Second Year. The tenure of the Exhibitions is conditional upon the holders pursuing their studies in the honour work in economics and political science of the Third Year. The other two Exhibitions, of the value respectively of $100 and $50, are awarded on the results of the honour examination of the Third Year in economics and political science. The Exhibitions will not be awarded except on satisfactory evidence of merit: their tenure is conditional upon the holders pursuing their studies in the honour work in economics and political science of the Fourth Year.

A Fourth Year Mackenzie Exhibition may be held by a student who holds another; a Third Year Exhibition cannot.

### Requirements in each Subject.

#### Greek.

Prose composition; translation at sight.

Study of the following texts:—Demosthenes, Olynthiacs (Glover, Pitt Press); Homer, Odyssey, Bk. ix. (Edwards, Pitt Press).

Greek History, to 404 B.C. Book recommended, Bury, History of Greece (Macmillan).

#### Latin.

Prose composition; translation at sight.

Study of the following texts:—Virgil, Aeneid I, II and VII; Quintilian X (Peterson, Clarendon Press), Chapters 1 and 2; Tacitus, Histories, Bk. I (Davies, Pitt Press).

Roman History, 133 to 31 B.C. Book recommended, How and Leigh, History of Rome (Longmans).

#### English and History.

*Literature*, Shakespere, Tempest, ed. Deighton (Macmillan); Milton, Paradise Lost, Books I and II, ed. Macmillan (Macmillan); Burke, On Conciliation with America, ed. Cook (Longmans); Arnold, Essays in Criticism, Second Series (Macmillan's Colonial Library). *History*.—Robinson, Introduction to the History of Western Europe (Ginn & Co.). *Composition*.—The candidate will be required to write an essay on some subject connected with the literature or history prescribed. High marks will be given for this subject.

## Hebrew.

Deuteronomy, Chaps. I-VII (Driver's Deuteronomy in International Commentary Series); also the record of the Call of the Prophets Isaiah, Jeremiah and Ezekiel, *i.e.*, Is.: VI.; Jer.: I, and Ezk.: I. Papers will also be set on easy prose composition, pointing, sight translation and miscellaneous questions.

## French.

(*a*) French essay; (*b*) translation at sight from French into English and from English into French; (*c*) translation of passages from the prescribed texts; (*d*) questions on the subject matter of the following texts, and the lives of their authors:—Molière, Le Médecin malgré lui (Heath); Racine, Phèdre (Heath); Hugo, Les Misérables (Heath); Taine, Introduction à l'Histoire de la Litérature Anglaise (Heath); Rostand, Cyrano de Bergerac (Holt).

The entire examination will be held in the French language.

## German.

(*a*) German essay; (*b*) translation at sight from German into English and from English into German; (*c*) translation from the prescribed texts; (*d*) questions on the subject matter of the following texts, the lives of their authors and the periods they represent:—

Goethe, Dichtung und Wahrheit, Bks. I, II, III (Heath); Schiller, Das Lied von der Glocke (Holt) and Wallenstein's Lager (Holt); Eichendorff, Aus dem Leben eines Taugenichts (Holt); Heine, Prose Selections (Macmillan).

## Mathematics and Physics.

*Mathematics.*

Differential and Integral Calculus.—Lamb's Infinitesimal Calculus and Osgood's Calculus.

Analytic Geometry.—C. Smith's Conic Sections.

Higher Trigonometry.—Carslaw's Plane Trigonometry.

Spherical Trigonometry.—The subject matter covered in the Second Year special course in this subject.

Algebra.—Determinants, as in Burnside and Panton's Theory of Equations.

*Physics.*

Electricity and Magnetism.—S. P. Thompson.

## Chemistry and Physics.

Principles of Chemistry, Mendeléef.

Subject of Essay.—The Seventh Group of Elements in the Periodic Table.

*Physics.*

Electricity and Magnetism.—S. P. Thompson.

## Philosophy.

Mellone, Text-book of Logic, chapters 1-10 inclusive; Mill, System of Logic, Bk. II, chap. 3, and Book III, chaps. 1-12, 14 and 21; Angell's Psychology (last edition); Berkeley's "Three Dialogues between Hylas and Philonous" (Open Court Philosophical Classics).

## Biology.

*Animal Biology.*

Animal Behaviour, by C. Lloyd Morgan (London, 1908), Second edition.

*Plant Biology.*

Plant Geography, by A. F. W. Schimper, authorized English translation by Fisher, revised by Groom and Balfour.

## Economics.

John Stuart Mill, Principles of Political Economy, Book I, Book II (Chapters XI, XIV, XV, XVI), Book III and Book V (Chaps. I, II, III, IV, V, VI, X, XI); F. Walker, Political Economy, Advanced Course, Parts I-V (inclusive); J. K. Ingram, History of Political Economy (edition 1893), pp. 1-42 (inclusive), 55-63 (inclusive), 87-104 (inclusive), 196-206 (inclusive), and 231-234 (inclusive); L. L. Price, A short History of English Commerce and Industry.

## PRIZES IN ARTS.

1. **The Neil Stewart Prize.**—An annual prize of $15 is open to all undergraduates and graduates of this University, and also to graduates of any other university, who are students of Theology in some college affiliated to this University. The rules which govern the award of this prize are as follows:—

(1) The candidate selected for the prize shall have passed an examination in (1) Hebrew Grammar, syntax, easy composition, pointing, and miscellaneous questions: (2) Translation from Hebrew into English, both prepared and unprepared. The Hebrew texts prescribed for the present year are as in the Ordinary Hebrew Course.

(2) Three papers will be set of three hours each:—One on pointing and translation (with lexical and grammatical notes); one on grammar and composition; and one on miscellaneous questions.

(3) Credit will be given to candidates showing a knowledge of Biblical Aramaic, and Rabbinic, provided the work done on classical Hebrew be thoroughly up to Scholarship standard. Special application should be made for a paper on these subjects.

(4) Should no candidate's work be up to the Scholarship standard the prize will be withheld, and a prize of $30 will be offered in the following year for the same.

The prize, founded by the late Rev. C. C. Stewart, M.A., and terminated by his death, was re-established by the liberality of the late Neil Stewart, Esq., of Vankleek Hill.

2. **Early English Text Society's Prize.**—This prize, the annual gift of the Early English Text Society, will be awarded for proficiency in the subjects of the language group in the English Honour curriculum of the Third and Fourth Years.

3. **New Shakespere Society's Prize.**—This prize, the annual gift of the New Shakspere Society, open to graduates and undergraduates, will be awarded for a critical knowledge of the following plays of Shakspere:—Hamlet, Macbeth, Othello, King Lear.

4. **Charles G. Coster Memorial Prize.**—This prize, of the value of $25.00, and intended as a tribute to the memory of the late Rev. Chas. G. Coster, M.A., Ph.D., Principal of the Grammar School, St. John, N.B., is offered for competition, by Mr. Colin H. Livingstone, B.A., to undergraduates (men

and women) from the Maritime Provinces (Nova Scotia, New Brunswick and Prince Edward Island). It is awarded on the decision of the Dean of the Faculty of Arts to that student in Arts from the Maritime Provinces who shows the greatest proficiency in the examinations at the end of the Session.

5. **Annie McIntosh Prize.**—The income of the sum of $425, subscribed by the pupils and friends of the late Miss Annie M. McIntosh, will be offered as a prize to students of the Royal Victoria College in such subject, or for such work, as the Faculty may determine.

The names of those who have taken Honours or Certificates will be published in order of merit, with mention, in the case of students of the First and Second Years, of the schools in which their preliminary education has been received.

# MEDALS, CERTIFICATES AND HONOURS.

## IN ARTS.

1. **Gold Medals** will be awarded in the B.A. Honour examinations to students who take the highest Honours of the first rank in the subjects stated below, and who shall have passed creditably the ordinary examinations for the Degree of B.A., provided they have been recommended therefor to the Corporation by the Faculty, on the report of the examiners:—

The Henry Chapman Gold Medal for Classical Languages and Literature.
The Prince of Wales Gold Medal for Mental and Moral Philosophy.
The Anne Molson Gold Medal for Mathematics and Natural Philosophy.
The Shakspere Gold Medal for English Language and Literature.
The Logan Gold Medal for Geology, Mineralogy and Palæontology.
The Major Hiram Mills Gold Medal for Biology.
The Governor-General's Gold Medal for Modern Languages and Literature.

In addition to the above, certain medals are offered annually by the Alliance Française, at the discretion of the Department of Modern Languages.

If there be no candidate for any medal, or if none of the candidates fulfil the required conditions, the medal will be withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended.

2. **Special Certificates** will be given to those candidates for B.A. who have been placed in the first class at the ordinary B.A. examination; have obtained three-fourths of the maximum marks in the aggregate of the courses proper to the Third and Fourth Years, are in the first class in not less than half of these courses, and have no third class. At this examination, no candidate who has taken exemptions can be placed in the first class unless he has obtained first class

in the examination in four of the subjects offered (each corresponding to a full course of lectures), and has no third class.

3. **Certificates** of High General Standing will be granted to those undergraduates of the first two years who have obtained three-fourths of the maximum marks in the aggregate of the studies proper to their year, are placed in the first class in not less than half the subjects, and have not more than one-third class.

4. **Graduates** who attend lectures in any subject, and pass the corresponding examinations therein, may obtain certificates of their standing, whether the course in question be Ordinary or Honour.

# FEES.

## GENERAL REGULATIONS.

1. Fees shall be paid to the Bursar on or before October 10th. The registration ticket must be shown to the Bursar when necessary, before the fee is paid. After October 10th an additional fee of $2.00 will be exacted of all students in default.

No fees will be refunded to partial students under any circumstances whatever.

2. Immediately after October 20th the Bursar shall send to the Deans of the several Faculties a list of the registered students who have not paid their fees, on receipt of which the Deans shall cause their names to be struck from the registers of attendance, and such students cannot be re-admitted to any class except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

Students registering after October 20th shall pay their fees at the time of registration, failing which they become subject to the provisions of Regulation 2.

## MATRICULATION EXAMINATION FEES.

See page 15.

## FEES IN ARTS.

(*For Regulations re payment, see above*).

Sessional fee for undergraduates and conditioned students .. .. .. .. .. .. .. .. .. .. .. .. .. $61.00*
(This includes fees for laboratories, library, gymnasium, athletics and graduation.)

Fees for Partial Students.—(First and Second Years.)—$16 per session for one course† and $10 for one half-course† of lectures, including the use of the Library; $12 per session for each additional course; $8 per session for each additional half-course. In addition there will be a fee of $3 for Athletics.

---

* At the request of the students themselves and by the authority of Corporation, an additional dollar will be exacted from all undergraduates and conditioned students (men) in the Faculty of Arts, for the support of the Literary and the Undergraduates' Societies of that Faculty.

† The lectures and laboratory work, if any, in one subject in any of the four college years constitute a "course," if occupying three hours per week; a "half-course" if occupying less than three hours per week.

Fees for Partial Students.—(Third and Fourth Years.)—$22 per session for one course† and $13 for one half-course† of lectures, including the use of the Library; $20 per session for each additional course; $11 per session for each additional half-course. In addition there will be a fee of $3 for Athletics.

Partial students taking the full curriculum in any one Year pay the same fees as undergraduates in that Year.

Graduates in Arts of this University are allowed, on payment of one-half of the usual fees, to attend all lectures in the undergraduate course, except those for which a special fee is exigible. Graduates of other universities attending full courses in affiliated theological colleges are given the like privilege.

Fees for special courses of lectures, given after 4 p.m.:—

| | |
|---|---|
| For one lecture per week during one term ..... | $ 3.00 |
| For two lectures per week during one term ..... | 4.00 |
| For one lecture per week during the session ..... | 4.00 |
| For two lectures per week during the session .. .. | 6.00 |

For more than two lectures per week regular partial student rates will be charged.

The fee for athletics and the caution money deposit are not exacted from partial students attending only the courses of lectures included in the Teachers' Syllabus.

Special fees:—

| | |
|---|---|
| Supplemental examination in any subject or any part of a subject taken at the regular date fixed by the Faculty .. .. .. .. .. .. .. .. .. .. .. .. | $2.00 |
| Supplemental examination, when granted at any other time than the regular date fixed by the Faculty, for each examination period ..... | 5.00 |

All fees for supplemental examinations must be paid to the Bursar, and the receipts shown to the Dean before the examination.

| | |
|---|---|
| Fee for the Degree of B.A. or B.Sc. (Arts) conferred in absentia (except when the candidate has been specially exempted by the Faculty) .. | $20.00 |

**Caution Money.**—Every student is required to deposit with the Bursar the sum of $5, as caution money, to cover damage done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

† The lectures and laboratory work, if any, in one subject in any of the four college years constitute a "course," if occupying three hours per week; a "half-course" if occupying less than three hours per week.

# COURSES FOR THE DEGREE OF B.A.

After passing the matriculation examination, an undergraduate, in order to obtain the degree of B.A. or B.Sc., is required to attend regularly the appointed courses of lectures for four years. (Undergraduates are arranged in years, from First to Fourth, according to their academic standing.) The conditions of passing into the last three years of the undergraduate course are stated on page 59.

## I. ORDINARY COURSE FOR THE DEGREE OF B.A.

### First Year.

**Greek, 1 *or* 2 (page 64), *or* Latin, 1 (page 67).**
**English, 1A, 1B, (page 70) and History, 1 (page 91).**
**Mathematics, 1—Algebra, Geometry and Trigonometry—(page 97).**
**Latin, 1 (page 67), *or* Greek, 1 *or* 2 (page 64), *or* French, 1, 2 (page 77), *or* German, 1 or 2 (page 80), *or* Spanish (page 83).**
**Physics, 1 (page 99).**

French cannot be taken as a qualifying option in the First Year, except by students who have passed the matriculation examination in this subject.

German may be taken instead of trigonometry by students who intend to read for modern language or English honours. This option will, however, be granted only on the recommendation of the departments concerned.

An additional language may be taken as an extra subject in the first two years, if the permission of the Advisory Committee has been obtained at the beginning of the session. Credit will be given for it on application.

First Year students are under the immediate direction of an advisory committee, consisting of all the members of the staff who are engaged in their instruction. A system of supplementary tutorial teaching is now in operation in this Year.

For regulations regarding advancement to the Second Year, see page 59.

**Advanced Courses.**—A student qualified to take work of a more advanced character than the ordinary work of the First Year in any subject, shall, with the consent of the B.A. Advisory Committee, take such advanced work in that

subject as the department concerned may recommend, or may substitute another ordinary subject for the subject in question. This regulation applies only to students whose qualifications are of exceptional character.

Students taking the work of advanced courses may be excused from the work of the corresponding ordinary courses, on the recommendation of the professor. No exemptions from other subjects will be granted to students in advanced courses.

*An outline of the First Year course for the Diploma of Commerce will be found on page* 110.

### Second Year.

**English Composition, 2B (page 71).**
**Latin, 2 (page 67) *or* Greek, 3 (page 65).**
**and *three* of the following:**
**Greek, 3 (page 65) *or* Latin, 2 (page 67).**
**English, 2A (page 71).**
**French, 3, 4 (page 78).**
**German, 3 (page 81).**
**Semitic Languages, A (1) and B (page 84).**
**Psychology and Logic, 1A and 1 B (page 89).**
**Economics, 2 (page 93) and History, 2 (page 92).**
**Mathematics, 2 (page 97).**
**Elementary Biology [Zoology, 1A (page 108) and Botany, 1 (page 107).]**
**Chemistry, 1 (page 101).**
**Physics, 2 (page 99)—only for students taking the advanced course in Mathematics.**

**Advanced Courses** will be offered in the Second Year as in the First.

Students taking an advanced course may be excused from the work of the corresponding ordinary course, on the recommendation of the professor. An exemption from any one of the subjects specified above, except English Composition, may be granted to honour students in mathematics who take both the ordinary and the advanced course in mathematics, but to no others.

*An outline of the Second Year course for the Diploma of Commerce will be found on page* 111.

For regulations regarding advancement to the Third Year, see page 60.

## Third and Fourth Years.

| Language and Literature. | History, Philosophy and Law. | Science. |
|---|---|---|
| English, 3A, 3B, 4A, 4B and 3C and 4C (page 72). | Philosophy, 2, 3, 4, *or* 5 (page 89). | Mathematics, 3 (page 97). |
| Latin, 3 (page 67). | History, (page 92). | Mechanics, 3 (page 97), and Astronomy, 4 (page 98). (Two half courses). |
| Greek, 4 (page 65). | †Economics, 2 (page 93.) | Physics: Sound, Light, Heat (full course), 3 (page 100). |
| Sanskrit, 1A, 1B (page 69). | Political Science, 3 (page 93). | Electricity and Magnetism (full course), 4 (page 100). |
| Comparative Philology (half course), A, B page 70). | Education (page 95). | Chemistry, 2, 3, 4; 5, 6; *or* 7, 8 (page 101). |
| French, 5 (page 79). | Constitutional Law (page 96), (half course). | Geology, 2 (page 103). |
| German, 4 (page 81). | Roman Law (page 96). | Zoology, 2 (page 109). |
| Italian, in alternate years (page 82). | | Botany, 2, 3 (page 107). |
| Semitic Languages, A (2), A (3) and C (page 85). | | *Physiology. |
| | | *Anatomy. |

Courses in certain Military subjects (of which Military History must be one) may be taken as an optional half-course (44 lectures) in either the Third or the Fourth Year. For details see General Announcement.

From the above divisions six courses are to be selected by each student in the Third and Fourth Years, three in each Year. Each will be studied in lecture courses extending over not more than four hours per week, with collateral reading, and, in the case of the science subjects, laboratory work. One subject chosen in the Third Year *must* be continued by every student in his Fourth Year (political science, 3, will be accepted as a continuation of economics, 2, and *vice versa*); two subjects *may* be continued if application to that effect be granted by the Faculty or the Advisory Committee of the Faculty. Of the whole six courses, one *must* and three *may* be chosen by all candidates from the list of subjects included under the head of Science, except when chemistry or biology has been selected as an option in the Second Year, in which case no science subject need be taken. Lectures in honour

* These courses in the Faculty of Medicine are accepted as the equivalents of ordinary courses in the Faculty of Arts in the case of double course students in Arts and Medicine, but not otherwise.

† This subject can be selected only by students who have studied it in the Second Year.

courses are open to candidates for the ordinary degree in the Third and Fourth Years, and may be substituted by them for an equivalent amount of the work prescribed for that degree in the proper year.

In addition to the six courses, a course of one hour a week in English composition (3C, 4C) must be taken by every candidate for the ordinary B.A. degree in the Third and Fourth Years, and also by honour students in English.

In order to obtain an ordinary B.A. degree of the first class, a candidate must obtain not only the required aggregate of marks (viz., three-fourths of the maximum), but also first class standing in three of his subjects, and not less than second class in any subject.

For arrangements whereby a student can take the course in Arts and Applied Science or Law in six years, or Arts and Medicine in seven years, see page 60.

## II. HONOUR COURSES FOR THE DEGREE OF B.A.

Honours of first, second, or third rank will be awarded to successful candidates in any honour course established by the Faculty, provided they have passed creditably the regular examinations in all the subjects proper to their Year.

A student proposing to read for an honour course:—

(1) Must satisfy the Department of his qualifications to proceed with the subject or subjects in question;

(2) Must, while attending lectures, make progress satisfactory to the Department. In case his progress is not satisfactory he may be notified by the Faculty to discontinue attendance.

Students who wish to graduate with honours in any subject are strongly recommended to take the advanced courses in these subjects in the First and Second Years, where such are provided.

A candidate for honours must take the ordinary course in the subject in which he is reading for honours, but where the honour course corresponds to two ordinary subjects, a candidate may, at the discretion of the department, be exempted from attendance on lectures in these ordinary subjects for a number of hours not exceeding four weekly. In addition to the ordinary subject specified above, he is required to take a second ordinary subject, which may be determined by the department in which he is a candidate for honours. The Faculty may, on the recommendation of the department, ex-

empt any student from the obligation to take a second ordinary subject.

A student who desires to be a candidate for B.A. honours must have taken at least second rank honours in the Third Year. In this case he shall be required to take only one subject in his ordinary course, viz., that in which he is reading for honours. A candidate, however, who obtains third rank honours at the B.A. examinations, will not be allowed credit at the end of the session for the exemption from other ordinary subjects, unless the examiners certify that his knowledge of the whole honour course is sufficient to justify it.

Honour lectures are open to all partial students who can satisfy the professor of their fitness to proceed with the work of the course. Such students will not be ranked with undergraduates in the examination lists. They are also open to candidates for the ordinary degree in the Third and Fourth Years, and may be substituted by them for an equivalent amount of the work prescribed for that degree in the proper year.

No student is allowed to attend two honour courses without the special permission of the Faculty.

The honour courses offered are as follows:—

**I. Classics.**

Greek and Latin—Courses shown on pages 65 and 68

**II. Latin and English.**

See pages 68 and 74.

**III. Latin and French.**

See pages 68 and 80.

**IV. Latin and German.**

See pages 68 and 82.

**V. English.**

See page 74.

**VI. Modern Languages.**

See pages 80 and 82.

**VII. English and French.**

See pages 74 and 80.

**VIII. English and German.**

See pages 74 and 82.

IX. Semitic Languages.

See page 85.

X. Greek and Hebrew.

See pages 65 and 85.

XI. Mental and Moral Philosophy.

See page 90.

XII. Economics and Political Science.

See page 94.

XIII. History.

See page 92.

XIV. History and English.

See pages 92 and 74.

XV. Mathematics and Physics.

See pages 98 and 100.

XVI. Chemistry.

See page 102.

XVII. Geology and Mineralogy.

See page 104.

XVIII. Biology.

See pages 108 and 109.

## III. HONOUR COURSES FOR SPECIALISTS IN ONTARIO.

A number of courses, leading to a degree in honours in McGill University, and qualifying for specialists' standing in the Province of Ontario, have been accepted by the Education Department of that province. Full details of these courses may be obtained on application to the Dean of the Faculty of Arts. The provincial regulation as to specialists' standing in Ontario is as follows:—

"51. (1) Any person who obtains a degree in Arts in the honour department of mathematics, science, classics, English and history, moderns and history, or French and German, as specified in the calendar of any university in Canada and accepted by the Education Department, who has graduated with at least second class honours (or 66 per cent., in each subject of such honour department) and who has been in actual attendance in such department at a university

for not less than two academic years, shall be entitled to the non-professional qualification of a specialist in such department."

Graduates of McGill University who, having taken any of these courses, have obtained the necessary standing in honours, as stated in the foregoing regulation, will, on attending such courses and passing such examinations in subjects relating to the art of teaching and school management as are prescribed by the Department of Education of the Province of Ontario, be qualified as specialists in that province. Undergraduates will not be permitted to substitute these courses for those of the regular McGill curriculum, except as a whole.

## IV. ORDINARY AND HONOUR COURSES FOR THE DEGREE OF B. Sc. (ARTS).

The ordinary B.Sc. course in Arts has been arranged to give students a thorough training, suitable for those wishing to study pure science as a preliminary to entering a business or profession or to teaching science in schools, or simply as part of a general scientific education. The ordinary course, therefore, involves the study of several sciences up to a moderately high university standard and does not include a highly detailed specialised study of any one science, such as is necessary before scientific research work or university teaching can be profitably undertaken.

Students wishing to specialise with a view to research work and university teaching should take an honour B.Sc. course.

### First Year.

(1). **English, 1A, 1B, (page 70).**
(2). **German (Beginners), (page 80).**
(3). **Mathematics 1 (page 97).**
(4). **Physics 1 (page 99), and practical work.**
(5). **Chemistry 1 (page 101), and practical work.**

### Second, Third and Fourth Years.

At the beginning of the Second Year, students may elect to take either an ordinary or an honour course. Each student electing to take an ordinary course will be required to select three subjects from the following list and to take the theoretical and practical ordinary degree courses provided in each of them for each of the three years. In addition, he must

take English composition in his Second Year, unless exempted by the professor of English:—

(1) Mathematics, (2) physics, (3) chemistry, (4) botany, (5) zoology, (6) geology with mineralogy.

A half course in education may be taken by students for the ordinary B.Sc. degree, in each of the Third and Fourth Years, as an option for one of the science subjects prescribed above.

Ordinary B.Sc. students who obtain 75% of the total marks during the three years will be awarded a first class. Extra courses in additional subjects may be taken only on the recommendation of the B.Sc. Committee.

A student proposing to read for an honour course must select one principal subject from the following list, namely, mathematics, physics, chemistry, zoology, and must satisfy the department concerned of his qualifications to proceed with the study of it.* He will be required to take the lectures and practical work provided for honour students in that subject during each of the three years, and, in addition, such other courses on allied subjects as shall be directed by the professor of the principal subject. All students reading for honours will be required to take a course in scientific German during their Second Year.

The honour courses include a detailed study of the higher branches of the principal subject in all its aspects, including the methods of research work, both practical and theoretical, and an honour course in all cases will involve a greater total amount of work than the total amount in an ordinary course, although the ordinary course involves a study of three subjects. Students, therefore, should seek advice and exercise due caution before electing to take an honour course.

Students taking an honour course, if sufficiently advanced, may be allowed by the professor of their principal subject to devote a portion of their time to research work, and the results of this work may be submitted to the examiners at the final examination and shall be taken into account in deciding the class to be awarded to the candidate. In no case, however, shall any such research work be taken in lieu of such competent general knowledge of the principal subject as should be possessed by a candidate for honours. First, second and third class honours will be awarded, and the whole of the work done by the student during the three years shall be taken into

* Honour courses in other sciences may be arranged on application to the Dean, who will communicate with the Advisory Committee.

account in deciding his class. No student shall obtain a first class who has not obtained 70% of the total marks during the three years, and no student shall obtain a second class who has not obtained 60% of the total marks, and no student a third class who has not obtained 50%. In any case, no student shall be awarded honours who, in the opinion of the professor of his principal subject, does not possess such a competent knowledge of his subject as ought to be acquired by an honour student.

Candidates for honours who fail may be excused such part of an ordinary B.Sc. course as the work they have done is clearly equivalent to. Candidates for honours who, in the opinion of the professor of their principal subject, are not making satisfactory progress may be required to discontinue their honour course and may be excused such part of an ordinary course as the work they have done is equivalent to.

Details of the honour course in each subject will be found in the section of the Calendar dealing with the courses in that subject.

The honour courses should be adapted to the needs of particular students. The following are typical proposed honour courses in chemistry and physics:

CHEMISTRY.

Second Year.—Chemistry, 3 lectures and 9 hours practical.
Physics, 2 lectures and 3 hours practical.
Biology or geology, or mineralogy, 2 lectures and 6 hours practical.

Third Year.—Chemistry, 5 lectures and 12 hours practical.
Physics, 2 lectures and 8 hours practical.
Mathematics (half-course on calculus, etc.), 1 hour.

Fourth Year.—Chemistry, 3 lectures and 18 hours practical.
Optional course on thermodynamics.

PHYSICS.

Second Year.—Physics, 4 lectures and 6 hours practical.
Dynamics, 2 lectures.
Mathematics, 4 lectures.
Physical Chemistry (half-course), 2 lectures.

Third Year.—Physics, 5 lectures and 5 hours practical.
Mathematics, 2 hours.
Dynamics, 2 hours.
Physical Chemistry, 2 hours and 4 practical.

Fourth Year.—Physics, 6 hours lectures and 12 practical.
Mathematics, 2 hours.

## EXAMINATIONS IN ARTS.

1. There are two examinations in each year, viz., at Christmas and at the end of the session. Successful students are arranged in three classes at the sessional examinations. Those who obtain 75 per cent. and over are placed in the First Class, those who have between 60 and 75 per cent. in the Second Class, and those with from 40 to 60 per cent. in the Third Class.

Christmas examinations will be held in all the subjects of the First and Second Years, and are obligatory on all undergraduates, and also on all partial students of the First Year, unless they have been specially exempted. Partial students of the First Year, who fail in the Christmas examinations, will be requested to withdraw from the class. *Undergraduates and conditioned undergraduates of the First Year who fail in more than three subjects at the Christmas examinations will not be allowed to proceed with their course for the remainder of the session.* Twenty-five per cent. of the marks given for the sessional work in each subject will be assigned for the results of the Christmas examinations. Students prevented by illness from attending the Christmas examinations will, on presenting a medical certificate, be given sessional standing on the results of the April examinations, if they have obtained an average of 40 per cent. at the two mid-term examinations, or (where no mid-term examinations are given) an average of 40 per cent. in class exercises. Christmas examinations in the Third and Fourth Years may be held at the option of the professors. When held, the same value will be assigned to them as in the case of the First and Second Years.

2. The following are the regulations for advancement to the Second, Third and Fourth Years of the undergraduate course and are subject to the condition that a student shall not be allowed to continue a subject of the preceding year in which he has not made good his standing, except in the case of compulsory subjects in the Second Year.

*Advancement to the Second Year*—A student who has failed to complete one of the ordinary courses of the First Year may enter the Second Year without special permission of the Faculty.

A student who has failed to complete two of the ordinary courses of the First Year shall be permitted to enter the Second Year, but only on the condition that an average of 50% has been obtained in the other subjects of the First Year Course.

*Advancement to the Third Year.*—A student may be allowed to proceed to the Third Year with one subject uncompleted if that subject belongs to the Second Year.

*Advancement to the Fourth Year.*—A student may be allowed to proceed to the Fourth Year with one subject uncompleted if that subject belongs to the Third Year.

*Repeating Year.*—By special permission of the Faculty, a student who is required to repeat his year may, on application in writing:—

(a) be exempted from attending lectures and passing examinations in the subjects in which he has already passed.

(b) be permitted to take, in addition to the subjects in which he has failed, one of the subjects of the following year of his course.

N.B.—The choice of subjects must involve no conflict of hours as printed in the Time-table.

3. Examinations supplemental to the sessional examinations will be held in September, simultaneously with the matriculation examinations. The time for each supplemental examination will be fixed by the Faculty; the examination will not be granted at any other time, except by special permission of the Faculty, and on payment of a fee of $5.

4. A list of those to whom the Faculty has granted supplemental examinations in the following September will be published after the sessional examination.

## DOUBLE COURSES.

### ARTS AND APPLIED SCIENCE.

Students who wish to obtain the degrees of B.A. and B.Sc. (Applied Science) in six years, will spend the first three years in Arts before attending any regular classes in Applied Science, except the summer classes referred to below. The student will then enter the Faculty of Applied Science and devote the remaining three years entirely to the work of this Faculty. The special summer courses mentioned are necessary in order to overtake the work in descriptive geometry, drawing and shopwork, which form part of the regular work of the First Year in Applied Science. This work must be taken in two periods of one month each (in the month of May), at the close of the regular work of the First and Second or of the Second and Third Years in the Faculty of Arts, and must not be taken during the regular session in any of the three years spent in that Faculty.

All students in the First and Second Years of the double course must, on the 31st of March, notify the Dean of the Faculty of Applied Science that they are taking this double course and will consequently enter themselves for the summer work in question at the close of the regular work of the session.

The subjects which they are required to take each year in the Faculty of Arts are as follows:—

### First Year.

The curriculum as laid down for the B.A. degree in this year, except that a modern language *must* be taken. It is recommended that advanced mathematics be taken instead of the ordinary course in this subject.

### Second Year.

1. English Composition.
2. Latin.
3. Mathematics (Ordinary or advanced, supplemented by the courses on Spherical Trigonometry and on Dynamics, Statics and Hydrostatics.
4. French or German.
5. The modern language not selected under No. 4 (if studied in the First Year), *or* English *or* Economics and History.

### Third Year.

1. English Composition.
2. Physics.
3. Any two of the following :—
   English, Latin, French, German, Philosophy, History, Economics (if taken in the Second Year), Political Science.

#### ARTS AND MEDICINE.

Students who wish to obtain the degrees of B.A. or B.Sc. (Arts) and M.D. in seven years will take three years in the Faculty of Arts and during the remaining four years will work altogether in the Faculty of Medicine. The courses which these students are required to take in the Faculty of Arts are as follows:—

### First Year.

The curriculum as laid down for the B.A. degree in this year, except that a modern language *must* be taken.

### Second Year.

**English Composition.**
**Greek or Latin** (the language taken in the First Year).
**French or German** (the language taken in the First Year).
**Chemistry** (Arts).
**Biology** (Medicine).

### Third Year.

**English Composition.**
**Anatomy.**
**Political Science.**
**English Literature.**
Additional Subject (optional).
**Organic Chemistry Lab.**

A certificate of "Literate in Arts" will be given along with the professional degree in Medicine or Applied Science, to those who have completed two years' study in the Faculty of Arts, and have passed the prescribed examinations.

#### ARTS AND LAW.

1. Undergraduates who desire to qualify for the degrees of B.A. and B.C.L. in six years shall include French among the subjects studied in each of the first two years of their course.

2. They shall take:—

I. *In the Third Year.*

(*a*) French.
(*b*) Political Science.
(*c*) One other of the courses of the Arts curriculum, which shall be selected from those under the heading "Science" in every case in which the Second Year course has not included either chemistry or biology.
(*d*) Either one or two hours weekly in English composition.*

II. *In the Fourth Year*:—

(*a*) Economics.
(*b*) Constitutional law and history.†

† NOTE.—The half course in constitutional history being given in alternate years only, students shall take it in their Third Year when it is offered in that Year.

(*c*) Roman Law.
(*d*) One hour weekly in English composition, if only one has been taken in the Third Year.*

In the case of students who propose to study Law, but are not subject to the statutory requirement of office attendance during the three years of their Law course, the Faculty may, on special application, in individual cases, make such arrangements as to permit of the completion of the double course in five years.

### ARTS AND THEOLOGY.

1. The Faculty will make formal reports to the governing body of the Theological College which such students may attend as to:—(*a*) their conduct and attendance on the classes of the Faculty, (*b*) their standing in the several examinations; such reports to be furnished after the examinations, if called for.

2. Students who are pursuing a double course in Arts and Divinity (six years at least) will take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts, less a half course in each of these years, or a whole course in either.

---

* NOTE.—Students are recommended to distribute their English work over two years.

## COURSES OF LECTURES IN ARTS.

### DEPARTMENT OF CLASSICS.

PROFESSORS:—W. PETERSON. JOHN MACNAUGHTON.

ASSOCIATE PROFESSORS:—S. B. SLACK. H. J. ROSE.

LECTURER:—LEMUEL ROBERTSON.

SESSIONAL LECTURER AND TUTOR (Royal Victoria College):—ELIZABETH A. HAMMOND IRWIN.

TUTOR:—R. K. NAYLOR.

### Greek.

All students taking Greek are expected to provide themselves with a grammar, a Greek-English dictionary, and an Atlas of ancient geography. The following are recommended:—

Allen's Elementary Greek Grammar; Liddell and Scott's Greek Lexicon (abridged, or intermediate); Kiepert's Atlas Antiquus, or Putzger's Historical Atlas.

BEGINNERS' COURSE.

1. Lectures, four hours a week, throughout the session.

Books required for 1911-12.—White's First Greek Book (Ginn & Co.); Macmillan's First Greek Reader, by Colson.

A tutorial class conducted during May and June enables students to overtake work not completed by the close of the session. Students intending to take Greek in their Second Year are required to take this class, or, if exempted by the Faculty, to take a supplemental examination in September.

Mrs. Hammond Irwin.

ORDINARY COURSES.

**First Year.**

2. Lectures, four hours a week.

For 1911-12:—AUTHORS: Selections from Lucian (Bond and Walpole, Macmillan); Homer, Odyssey Book IX (Edwards, Pitt Press); Euripides, Bacchæ (Gwyther, Bell).

Mr. Naylor.

COMPOSITION: North and Hillard's Greek Prose Composition (Rivingtons).

TRANSLATION AT SIGHT: Peacock and Bell, Passages for Greek Translation (Macmillan, Elementary Classics).

GREEK HISTORY: 560 to 479 B.C. Book recommended, Cox's Greeks and Persians (Longmans Epoch Series), or Bury's History of Greece (Macmillan), chs. V. to VII.

Additional work may be prescribed for advanced students.

Mr. Naylor.

**Second Year.**

3. Lectures, four hours a week.

For 1911-12:—AUTHORS: *Summer Reading.*—GREEK HISTORY: 479 to 403 B.C. Books recommended, Bury, History of Greece (Macmillan), chs. VIII to XI; Abbott, Pericles and the Golden Age of Athens (Putnam). *Lectures.*—Thucydides, Book IV, chapters 1-41 (Graves, Macmillan); Æschylus, Septem contra Thebas (Sidgwick, Clarendon Press); Homer, Iliad XVIII (Platt, Blackie).

Prof. Rose.

COMPOSITION: North and Hillard's Greek Prose Composition (Rivingtons).

TRANSLATION AT SIGHT: Greek Unseens in Prose and Verse, Intermediate Section (Blackie & Son).

Advanced students will take the work of the ordinary course, together with additional work to be prescribed.

Prof. Slack.

**Third and Fourth Years.**

4. Lectures, four hours a week.

For 1911-1912:—AUTHORS: *Summer Reading.*—Greek History from 404-323 B.C. *Lectures.*—Aristophanes, Frogs (Merry, Clarendon Press); Sophocles, Antigone (Wells, Bell); Plato, Gorgias (Thompson, Bell). The lectures will include two courses of twelve hours each; these courses will deal with some period of Greek history or literature or with some aspect of Greek life or thought.

Prof. Robertson.

COMPOSITION: Sidgwick's Greek Prose Composition (Longmans).

TRANSLATION AT SIGHT: Fowler, Sportella (Longmans).

Prof. Robertson.

HONOUR COURSES.

**Third and Fourth Years.**

5. Honour students of the Third and Fourth Years will take the work of the ordinary course together with additional

work, and will attend the ordinary lectures (except those from which they may be exempted under the regulation on page 53), together with four hours a week of additional lectures. They are recommended to study during the summer vacation the books set down under the head of Private Readings.

*Additional Work for Honours* (1911-12):—AUTHORS: *Private Readings* (Third and Fourth Years).—Isocrates, Panegyricus (Sandys, Rivingtons); Sophocles, Philoctetes (Jebb & Davies, Cambridge University Press). Fourth Year only).—Euripides, Bacchæ (Sandys, Cambridge University Press). *Lectures.*—Thucydides, Book III (Marchant, Macmillan & Co.); Demosthenes, The Peace, Chersonesus, and Philippics II & III (Sandys, Macmillan); Sophocles, Œdipus Rex (Jebb and Pearson, Cambridge University Press).

Prof. Macnaughton.

COMPARATIVE PHILOLOGY: 48 lectures (see page 70), which will be reckoned as forming part of the Third and Fourth Year honour course in Greek and Latin together. Book recommended, Max Niedermann, Précis de phonétique historique du latin, Paris, libr. Klincksieck.

COMPOSITION: Passages to be selected.

TRANSLATION AT SIGHT: Fox and Bromley, Models and Exercises in Unseen Translation (Clarendon Press).

Prof. Macnaughton.

### BRITISH SCHOOL OF CLASSICAL STUDIES IN ATHENS

McGill University is a contributor to the support of this School, which affords facilities for archæological and classical investigation in Greece. Graduates in Arts of McGill University are accordingly entitled to special privileges and advantages as regards tuition in the School.

## Latin.

### ORDINARY COURSES.

All students taking Latin are expected to provide themselves with a grammar, a Latin-English dictionary, and an Atlas of Ancient Geography. The following are recommended:—Allen and Greenough's New Latin Grammar; Lewis' School Dictionary, *or* White's Junior Students' Latin-English Dictionary; Kiepert's Atlas Antiquus, *or* Putzger's Historical Atlas.

**First Year.**

1. Lectures, four hours a week.

For 1911-12:—AUTHORS:—Sallust, Catiline (Summers, Pitt Press); Cicero, de Senectute (Warman, Bell); Ovid, Metamorphoses, Book XI (Davies, Clarendon Press).

Prof. Macnaughton.

COMPOSITION: North and Hillard, Latin Prose Composition (Rivingtons).

TRANSLATION AT SIGHT: Rivingtons' Class Books of Latin Unseens, Book II.

ROMAN HISTORY: Outlines, to 133 B.C. Book recommended, Botsford, History of Rome (Macmillan), chs. I to VI.

Prof. Robertson and Prof. Slack.

**Advanced Section.** Tacitus, Histories Book I (Davies, Cambridge University Press).

Prof. Robertson.

**Second Year.**

2. Lectures, four hours a week.

For 1911-12:—AUTHORS: *Summer Reading*:—ROMAN HISTORY: Outlines, from 133 B.C. to 337 A.D. Book recommended, Botsford, History of Rome (Macmillan), chs. VII to XII. *Lectures.*—Livy, Book VI (Laming, Blackie's Illustrated Latin Series); Horace, Odes III and IV (Latter, Bell's Illustrated Classics); Virgil, Æneid VI (Sidgwick, Pitt Press).

Prof. Rose and Prof. Slack.

COMPOSITION: North and Hillard's Latin Prose Composition (Rivingtons).

TRANSLATION AT SIGHT: Rivingtons' Class Books of Latin Unseens No. VI.

Prof. Rose and Prof. Slack.

**Advanced Section.** As in First Year.

**Third and Fourth Years.**

3. Lectures, four hours a week.

For 1911-12:—*Summer Reading.*—Strachan-Davidson, Cicero (Putnam).

AUTHORS: *Lectures.*—Watson's Select Letters of Cicero, Part 2 (Watson's Select Letters, Text only, Clarendon Press).

Cicero, Pro Plancio (Holden, Cambridge Pitt Press). Virgil Aen. VII and VIII (Sidgwick, Cambridge Pitt Press.).

A course of twelve lectures on the History of Latin Literature:

A course of twelve lectures on Roman History.

COMPOSITION: Nixon, Prose Extracts for Translation into English and Latin (Macmillan).

TRANSLATION AT SIGHT: Rivingtons' Class Books of Latin Unseens (ed. Smith), Book X.

Prof. Slack.

HONOUR COURSES.

**Third and Fourth Years.**

4. Honour Students of the Third and Fourth Years will take the work of the ordinary course together with additional work, and will attend the ordinary lectures (except those from which they may be exempted under the regulation on p. 53) together with four hours a week of additional lectures. They are recommended to study during the summer vacation the books set down under the head of Private Readings.

*Additional work for Honours* (1911-12): AUTHORS (Third and Fourth Years):—*Private Readings.*—(Third and Fourth Years)—Cicero de Officiis III (Holden, Cambridge University Press). (Fourth Year only), Terence, Phormio (Laming, Blackie's Illustrated Latin Series), Terence Hautontimorumenos, (Gray, Cambridge University Press).

*Lectures*: Cicero, Pro Milone (Reid, Cambridge University Press); Cicero, Letters, Parts 3 and 4 (Watson Select Letters, Text only, Clarendon Press); Lucretius, Book III (Duff, Cambridge University Press).

Prof. Rose.

COMPARATIVE PHILOLOGY: 48 lectures (see page 70) which will be reckoned as forming part of the Third and Fourth Year Honour Course in Latin and Greek together. Book recommended, see page 66.

COMPOSITION: Nixon's Prose Extracts for Translation into English and Latin (Nixon, Macmillan).

TRANSLATION AT SIGHT: Fox and Bromley, Models and Exercises in Unseen Translation (Clarendon Press).

Prof. Rose.

### British School of Classical Studies at Rome.

McGill University is a contributor to the support of this School, which affords facilities for archæological and classical investigation at Rome. Graduates in Arts of McGill University are accordingly entitled to special advantages as regards tuition in the School.

## Sanskrit.

The two courses in Sanskrit are primarily intended for students who have passed the Second Year sessional examination, but permission may in certain other cases be obtained to attend the elementary course.

1. A. For beginners. The work mainly consists in the mastering of the elements of Sanskrit grammar with such composition as tends to fix in the mind the knowledge thus acquired. Etymological references will be frequently made and comparisons suggested in order to make the language interesting and give it an educational value in spite of the elementary nature of the course. This course counts as a half-course qualifying for the degree, and it is especially recommended to students attending the half-course in comparative philology.

Two hours a week.

1. B. For those students who have already passed through Course A or its equivalent in Sanskrit preparation. One hour per week is devoted to lectures on Indian literature, commencing with the Post Vedic period; two hours are devoted to reading selections; and one hour to grammar and composition, bearing especially on the texts read. Course B counts as one full course to the final; courses A and B together, one and one-half, the student taking up Course B not being debarred thereby from repeating a course in another department.

Four hours a week.

*Books required*:—Perry, Sanskrit Primer; Whitney's Sanskrit Gramar; Lanman's Sanskrit Reader (Ginn & Co.). For reference: Sanskrit Literature. A. A. Macdonell (Heinemann).

*Summer Readings.*—A course of summer readings will be suggested according to individual needs. During the months of May and June the lecturer will be glad to give his personal supervision to students of Sanskrit and is prepared to give lectures if due notice is given.

## Comparative Philology.

LECTURER:—S. B. SLACK.

A. The first part of the course on Comparative Philology will deal with the following subjects:—The history of the science of comparative philology; the Indo-Germanic languages and their classification and relation to one another; the primitive home and culture of the so-called Aryan people; the nature of compounds in Indo-Germanic; recent theories about ablaut and its relation to the Indo-Germanic system of accentuation; the importance of ablaut in explaining apparent irregularities of declension and conjugation; external Sandhi in the Indo-Germanic languages; and the influence of analogy and contamination in the formation of words. The lectures will then go on to discuss the various sounds of the primitive Indo-Germanic language, and the development of those sounds in the various languages of the Indo-Germanic family.

B. After Christmas, special attention will be devoted to the comparative grammar of Greek and Latin. This part of the course will be especially useful to classical honour students. At the same time students who desire to make a special study of comparative philology are recommended to take this course in addition to course A mentioned above.

Two hours a week.

## DEPARTMENT OF ENGLISH.

PROFESSOR:—CHAS. E. MOYSE.

PROFESSOR OF COMPARATIVE LITERATURE AND ASSOCIATE PROFESSOR OF ENGLISH:—P. T. LAFLEUR.

TUTOR AND LECTURER:—SUSAN E. CAMERON.

LECTURERS:—G. W. LATHAM. CYRUS MACMILLAN.

### ORDINARY COURSES.

### First Year.

1. A. ENGLISH COMPOSITION.—The course will be of a practical character. Regular essays are required of all students. One hour a week. Men, Monday, 12; women, Monday, 9 a.m. (R.V.C.) Mr. Latham.

1. B. ENGLISH LITERATURE.—The course will consist of a study of representative English writers. Men, Friday, 12; women, Wednesday, 9 a.m. (R.V.C.). One hour a week. Mr. Latham.

1. C. HISTORY.—For course, see under History, page 91.

For affiliated colleges, in place of the above:—Halleck's History of English Literature (American Book Co.), pp. 1-261, with the following readings:—Chaucer, Prologue to the Canterbury Tales; Spenser, Faerie Queene, Book I; Milton, Comus; European History (Adams, Macmillan), pp. 53-451. Regular practice and instruction in composition are strongly recommended. One hour a week. (Thurs. 11.)

**Second Year.**

2. A. LITERATURE.—English prose from Bacon to Burke. Three hours a week before Christmas, with the following special readings:—Bacon: Essays of Truth, of Unity in Religion, of Revenge, of Atheism, of Travel, of Friendship, of Plantations, of Building, of Studies; Browne: Religio Medici; Milton: Areopagitica; Defoe: A Journal of the Plague Year; Swift: A Tale of a Tub; Steele and Addison: The Tatler and the Spectator, *passim;* Goldsmith: The Citizen of the World. Craik's Prose Specimen and Chambers's Cyclopedia of English literature (new ed.) may also be used.

English Prose in the Nineteenth Century. Three hours a week after Christmas. The course is a continuation of that followed in the first term and will include representative prose writers from Jeffrey to Leslie Stephen. Readings—Lamb: Essays of Elia; DeQuincy: The English Mail-Coach, Levana and the Three Ladies of Sorrow, A Spanish Military Nun; Carlyle: Essay on Burns, Heroes and Hero-Worship, other selections, to be specified; Ruskin: Sesame and Lilies; Arnold: Essays in Criticism, Second Series. Three hours a week. Men, Tuesday, Wednesday, Thursday, 9 a.m.; women, (R.V.C.) Monday, Thursday, Friday, 3 p.m. Prof. Lafleur, Miss Cameron and Dr. Macmillan.

2. B. COMPOSITION.—Continuation of 1 A.

Fortnightly essays will be required and will be taken into account in determining the standing of students at the end of the session. One hour per week. Men, Monday, 9 a.m.; women, Tuesday, 3 p.m. Dr. Macmillan.

This course is obligatory on all Second Year students.

For affiliated colleges:—Halleck's History of English Literature, pp. 305-480, and Nineteenth Century Literature (Cunliffe and Cameron, Copp, Clark Co.). Continued work in composition is strongly recommended.

**Third Year.**

3. A. ENGLISH LITERATURE.—Shakspere.—This course will begin with a review of the early history of the English drama, and of the conditions which led to its development in the time of Elizabeth. The advances made by the earlier Elizabethan dramatists will be noted, and Shakspere's methods illustrated by a comparative study of A Midsummer Night's Dream, Romeo and Juliet, Henry V, As You Like It, Hamlet, King Lear, Macbeth, and The Tempest; the relation of these plays to their sources will also be considered. Students are recommended to read as many of Shakspere's plays as they can, and to give special attention to those mentioned above. Books of reference will be named from time to time. Two hours a week. Monday and Thursday, 4 p.m. Dr. Moyse.

In connection with 3A a special course of lectures will be delivered by Dr. Macmillan on Shakspere's plays. This course is compulsory on all students who take 3A. One hour a week.

(3A together with this course, is reckoned as a half-course.)

*Books of Reference and Authorities*:—These will be given at the beginning of the course. Among them may be mentioned, "Growth of the Drama," by G. E. and W. H. Hadow (Oxford Treasury of English Lit., vol. II; Clarendon Press.).

[The editions of separate plays published by Dent (Temple Shakespeare) or Macmillan will be found convenient.]

3. B. A course on Poetry and the Drama. England from 1660 to 1789, with special and detailed reference to changes in literary ideals and expression during the period discussed. The lectures will include poets, from Dryden to Crabbe; dramatists, from the writers of Heroic plays to Sheridan. Students will be called upon to pay special attention to the following works: Dryden, Absalom and Achitophel; Pope, Selections from the Essay on Man and The Rape of the Lock; Thomson, The Seasons (one book); Cowper, The Task (one book); Crabbe, The Borough (four divisions); Dryden, Essay on Dramatic Poesy; Addison, Cato; Goldsmith, She Stoops to Conquer; Sheridan, The School for Scandal. Two hours a week. Tuesday and Wednesday, 11 a.m. Prof. Lafleur.

3. C. ENGLISH COMPOSITION.—An advanced course on English Composition, including style, methods and principles of literary criticism, treated from the historical point of view, and an introduction to the comparative study of literature in

accordance with the most recent results of contemporary thought and research. In connection with this course students will be examined in a course of prescribed readings. Essays at stated periods are required of all. One hour a week. Thursday, 11 a.m. Prof. Lafleur and Dr. Macmillan.

Prof. Lafleur's course in composition is open only to students who take his course in literature.

*Books of reference and authorities*:—Saintsbury's History of Criticism; Lessing, Sainte-Beuve, Brunetière, Arnold, Ruskin, Worsfold.

**Fourth Year.**

4. A. ENGLISH LITERATURE.—A Course on the Leading Poets of the Nineteenth Century. The chief aspects of the French Revolution will be considered, and republican feeling in England illustrated chiefly from the works of Wordsworth, Coleridge and Southey. The indirect revolutionary poets Byron and Shelley will then be considered, and their typical poems, together with those of the poets already mentioned, critically examined. The remainder of the course will be given to Scott, Keats [Macmillan], Tennyson [Macmillan], Browning, Matthew Arnold and Swinburne.

The poems which have been selected for private reading will be announced at the commencement of the session. *Texts*: Page's British Poets of the Nineteenth Century (Sanborn, Boston) will be found useful. Two hours a week. Tuesday and Friday, 4 p.m. Prof. Lafleur and Miss Cameron.

4. B. A general course on the History of English Prose Fiction from Richardson to the middle of the nineteenth century, treating of the various forms successively given to English novels during the period, and the influences that stimulated or otherwise affected such productions. While students are expected to show particular knowledge of English master-pieces in this kind, frequent reference to cognate works by continental writers will also demand some familiarity with contemporary European literature. Portions of the following works will be selected for detailed study and discussion: Richardson, Clarissa; Fielding, Amelia; Goldsmith, The Vicar of Wakefield; Godwin, Caleb Williams; Walpole, The Castle of Otranto. A general knowledge of leading English fiction of the nineteenth century is desirable, special importance being attached to a good knowledge of the works of Dickens and Thackeray. *Books of reference*:—Raleigh, The English

Novel; Dunlop, History of Fiction; Cross, The Development of the English Novel. Two hours a week. Monday and Friday, 11 a.m. Prof. Lafleur.

4. C. The Drama, from Shakspere to the closing of the Theatres. This course is a continuation of 3A. Two hours a week. Dr. Macmillan.

4. D. English Composition.—The statement respecting 3C (page 72) indicates the method and character of this course, which is regarded as a continuation of the course in the Third Year. One hour a week. Wednesday, 12. Prof. Lafleur and Dr. Macmillan.

### Honour Courses.

**Third Year.**

In addition to the ordinary work of the Third Year, honour students will take course 5, together with courses 9, 10, 11, and 13.

5. English Language. Three hours a week. Sweet, Anglo-Saxon Reader, Extracts (all the Prose) XX, XXI, XXIII, XXVII; Wright, Primer of the Gothic Language, The Gospel of St. Mark (Clarendon Press); Wright, Old English Grammar (Oxford University Press). (The use of Streitberg, Gotische Elementarbuch is recommended.) Dr. Moyse.

**Fourth Year.**

Honour students in the Fourth Year will select Language or Literature.

Language students will take the following special courses in addition to 4A, 4B, and 4C:—

6. Anglo-Saxon.—The whole of Béowulf will be read in class and illustrated by notes on origins, philology and textual emendations. *Text Book*: Wyatt's Béowulf (Ginn). Students will read selected portions of other poems for examination. Anglo-Saxon prose will be studied mainly in the translation of Gregory's Pastoral Care and Ælfric's Homilies. Students will be guided in the examination of dialectical texts and referred to important articles in periodical literature dealing with that subject and also with the field of Anglo-Saxon generally.

Two hours per week. Dr. Moyse.

7. Middle English. — The course is intended to give a knowledge of dialectical English and to illustrate the changes the language has undergone. The texts given in Morris's

Specimens of Early English, Part I, and Morris and Skeat's Specimens of Early English, Part II, may be regarded as the chief material for study. A list of books of reference and of important monographs will be given at the commencement of the course. Two hours a week. Dr. Moyse.

8. Mœso-Gothic.—The course on Mœso-Gothic is intended to open the way to the comparative study of allied Teutonic languages. Particular attention will be given to the phonological relations of Mœso-Gothic and Anglo-Saxon. *Text-Books*: Wright, Primer of the Gothic language, The Gospel of St. Mark; Ulfilas (Heyne). Dr. Moyse.

Honour students selecting Literature will take the following, in addition to the ordinary work of the Fourth Year, and one hour a week in Language (Anglo-Saxon:—Sweet, Anglo-Saxon Reader, Extracts (all the verse):—

9. Chaucer (1912-13).—A sketch of Chaucer's characteristics and literary influence. The following works are chosen for special study:—Canterbury Tales: Prologue, Knightes Tale, Nonne Prestes Tale; Parlement of Foules; Hous of Fame [Skeat's Chaucer]; Piers the Plowman (Clarendon Press). Works to be consulted or read: Pollard's Chaucer Primer (Macmillan); Lounsbury, Studies in Chaucer; Jusserand's English Wayfaring Life; Snell, The Fourteenth Century. One hour a week. Mr. Latham.

10. Prose Writers before Dryden (1912-13).—The main object of the course will be to discuss the chief literary influences visible in the Pre-Restoration writers of English prose and to examine characteristics of style. The subject will be treated chronologically. As the course is largely interpretative and critical, facts of biography will be used only when they illustrate points of moment.

Students will read the following works for examination: More, Utopia (Arber's reprint, or Temple Edition); Sidney, Apologie for Poetry (Ed. Cook, Ginn & Co. or Shuckburgh, Cambridge University Press); Lodge, Rosalynd (Newnes, Caxton Series); Bacon, New Atlantis; Earle, Microcosmographie (Temple Ed.); Milton, Areopagitica (Ed. Hales, Clarendon Press).

Two hours a week. Miss Cameron.

11. Spenser and Milton (1912-13).—This course is intended to show the literary relations of Spenser and Milton to their time, and to treat with special prominence the following works:—Spenser: The Shepheard's Calendar, Mother Hubbard's Tale, Colin Clout's Come Home Again, Faerie

Queene (Selections), Fowre Hymnes. Milton: Shorter Poems, Paradise Lost (Selections), Samson Agonistes.

One hour a week. Miss Cameron.

12. COMPARATIVE LITERATURE.—A course of lectures on the influence of English literature upon the Continent of Europe, chiefly during the eighteenth and nineteenth centuries. The treatment discusses mainly the historical development of ideas, but examines also corresponding modifications regarding literary method and form.

Voltaire, Letters concerning the English Nation; Elton, The Augustan Age; Texte, Jean Jacques Rousseau and the Cosmopolitan Spirit in Literature (tr. Matthews); Brunetière, L'Evolution des Genres. Two hours a week. Prof. Lafleur.

13. COMPARATIVE METHODS IN LITERARY STUDY (1912-13): —A course of lectures setting forth the chief tendencies manifested in contemporary criticism, and here applied to the examination of important literary relations between the Continent of Europe and England through the works of Montaigne, Molière, Voltaire, LeSage, etc.; with ample reference to the literature of Germany, Spain, and Italy, in corresponding manner. Two hours a week. Prof. Lafleur.

14. ENGLISH PROSE FROM DRYDEN TO BURKE.—Details and readings to be announced at the beginning of the session. Prof. Lafleur.

15. AMERICAN AND CANADIAN LITERATURE.—A historical and critical outline of English Literature in the New World. Two hours a week. Miss Cameron.

16. TENNYSON (Continuation) and MINOR POETS of the NINETEENTH CENTURY.

For examination: In Memoriam, Maud and the Idylls of the King. Readings from minor poets will be announced at the beginning of the session. One hour a week. Dr. Moyse.

Any of the above honour courses may be taken as an ordinary course with the approval of the Faculty, provided that the time-table allows of such substitution.

The English requirements for the honour courses in English and Latin, English and French and English and German are as follows:—

Third Year.—Lecture course 5 and three other courses chosen from 12, 14, 15, 16.

Fourth Year.—One hour per week of language and three of the courses enumerated above which have not been taken in the Third Year.

In the English and History honour course, Third and Fourth Years students may choose each year from the programme for the Third and Fourth Year any courses aggregating six hours a week.

## DEPARTMENT OF MODERN LANGUAGES.

PROFESSOR:—HERMANN WALTER.
ASSOCIATE PROFESSOR:—LEIGH R. GREGOR.
ASSISTANT PROFFESSOR:—J. L. MORIN.
LECTURER:—E. T. LAMBERT.
LECTURER IN FRENCH (ROYAL VICTORIA COLLEGE):—MLLE G. BIANQUIS.
TUTOR IN GERMAN (ROYAL VICTORIA COLLEGE):———————

### A.—French.

Owing to the position which this University occupies in the midst of a very large French-speaking population, there is a permanent demand for courses of a practical, conversational character. The Department profits by the co-operation of French church services, French newspapers, French theatres, French literary clubs, and public lecture courses in the French language.

In drawing up the following courses endeavours have been made not only to provide for the maintenance of academic methods, but also to meet the special needs of the professional men of the Province of Quebec, every student being given the opportunity to learn to speak French. In the First and Second Years the French language is largely used in class instruction. In the Third and Fourth Years all lectures are given and all studies carried on in French.

Honours may be taken in French and German together or in Latin and French or in Latin and German, as well as in English and French or in English and German.

#### ORDINARY COURSES.

**First Year.**

1. *First Term*:—Vreeland & Koren, French Syntax and Composition (Holt), first ten lessons with exercises I and II for each lesson; Maupassant, Huit Contes Choisis (Heath).

*Second Term*:—Sandeau, Mademoiselle de la Seiglière (Holt); Grammar, Lessons—with exercises I and II for each lesson.

2. *First Term*:—Daudet, Tartarin (A. B. Co.); Milhau, Choix de Poésies (Renouf), selections beginning on pp. 19, 42, 65, 69.

*Second Term*:—Dumas, Napoléon, including the passages for translation into French (Macmillan). Daudet, Trois Contes (Heath). Milhau, selections beginning on pp. 22, 77; Super, Histoire de France (Holt), Chaps. V and VI to bottom of page 50, pp. 55-60 and Chaps. XVI and XVII, to bottom of page 167.

*Advanced Section* (in place of course 2): France, Le Livre de Mon Ami (Holt); Rostand, L'Aiglon; Pailleron, Le Monde où l'on s'ennuie (Jenkins); Normand, Cours d'Histoire à l'usage des écoles Normales et Primaires, deuxième année (Colin); Milhau, Choix de Poésies (Renouf).

Four hours weekly, two for each course.

**Second Year.**

SUMMER READINGS for students entering on their Second Year:—Corneille, Cinna (Holt); Daudet, Le Petit Chose (Heath).

The examination on summer readings will be held in the first week of the session.

SESSIONAL LECTURES:—

3. *First Term*:—Vreeland and Koren, French Syntax and Composition (Holt), Idioms of the first ten lessons with the third exercise for each lesson, Part II; Corneille, Le Cid (Holt); Elementary Historical French Grammar, the phonetical part.

*Second Term*:—Grammar, remainder of Part I, and Part III; Bazin, Les Oberlé (Holt); Elementary Historical French Grammar, the morphological part.

*Advanced Section* (in place of course 3), First Term: Montesquieu, Lettres Persanes, with exercises (Macmillan); Hugo, Hernani (Holt). Second Term: Corneille, Le Cid (Holt); Renan, Souvenirs (Heath); Elementary Historical French Grammar.

4. *First Term*:—Hugo, Quatre-vingt-treize (Heath), pp. 1-153. Milhau, Choix de Poésies (Renouf), selections beginning on pp. 22, 33.

*Second Term*:—Finish Quatre-vingt-treize; Molière, Les Femmes Savantes (Heath); Racine, Andromaque; Mansion, Esquisse de la Littérature Française (McDougall & Co. Lon-

don), Chaps. IX, XIII (pp. 112-117), XIV (pp. 124-131), XVI, XVII to end of p. 167.

Four hours weekly, two for each course.

**Third and Fourth Years.**

The courses will consist mainly in the study of French literature and advanced prose composition.

SUMMER READINGS for students entering on the Third or Fourth Year:—Racine, Britannicus; Molière, L'Avare.

The examination on summer readings will be held in the first week of the session.

SESSIONAL LECTURES:—

5. For 1911-12:—Literature in the XVIIIth and XIXth Centuries. Lesage, Gil Blas (Heath and Co.); Marivaux, Le Jeu de l'Amour et du Hasard; Buffon, Discours sur le Style; Diderot, Paradoxe du Comédien. (Bib. Nat.); Sedaine, Le Philosophe sans le savoir; J. J. Rousseau, Selections; Voltaire, Zaïre.

Victor Hugo, Ruy Blas; Musset, Selections (Ginn and Co.); Balzac, Eugénie Grandet; A. Chénier, Chefs-d'œuvre lyriques (Gowan's Internat. Library); Flaubert, Trois Contes; Modern French Lyrics (Heath); Dumas, L'Etrangère; Doumic, Histoire de la Littérature Française.

Prose Composition:—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall and Co., London).

6. For 1912-13—(*a*): French Literature from the beginning to the end of the XVIth century; (*b*) French Literature in the XVIIth century. Corneille, Polyeucte; Racine, Les Plaideurs, Andromaque; Molière, Tartuffe; Boileau, Choix d'Epîtres et de Satires; La Bruyère, Selections; Madame de la Fayette, La Princesse de Clève; Doumic, Histoire de la Littérature Française.

Prose Composition:—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall and Co., London).

N.B.—In order to be admitted to the Third Year French a student must understand French well enough to take lectures delivered in French.

Four hours weekly.

HONOUR COURSES.

**Third and Fourth Years.**

In order to obtain honours, candidates must be able to speak French fluently.

7. HISTORY OF LITERATURE:—History of the French Novel. One hour weekly.

8. MEDIÆVAL FRENCH LITERATURE AND PHILOLOGY (1911-1912):—Darmesteter's Cours de Grammaire Historique, and Bartsch, Chrestomathie de l'Ancien Français. Three hours weekly.

9. COMPOSITION. One hour weekly.

N.B.—Before entering on their Fourth Year course, honour students are expected to have read the following:—Corneille, Le Cid, Horace, Cinna, Polyeucte; Racine,—Andromaque, Britannicus, Phèdre, Athalie; Molière,—École des Femmes, Misanthrope, Tartuffe, Le Bourgeois Gentilhomme, Les Femmes Savantes; Boileau,—L'Art Poétique; except when any of these texts are part of the readings prescribed for the ordinary course in the Fourth Year.

## B.—German.

ORDINARY COURSES.

**Beginners' Course.**

1. Van der Smissen und Fraser, High School German Grammar (Copp Clark Co.); Meissner, Aus deutschen Landen (Holt); Schiller, Maria Stuart (Holt and Co.).

A tutorial class conducted during May and June enables students to overtake work not completed by the close of the winter session. Students intending to take German in their Second Year are required to take this class, or if exempted by the Faculty, to take a supplemental examination in September.

Four hours weekly.

SUMMER READINGS (obligatory) for students of the Beginners' Class intending to take German in their Second Year:—Schiller, Die Piccolomini (Hol); Riehl, Die vierzehn Nothelfer (A. B. Co.).

**First Year.**

2. *First Term*:—The Joynes-Meissner German Grammar (Heath); Moscher, Wilkommen in Deutschland (Heath). *Second Term*: Horning, German Composition; Freytag, Die Journalisten (Ginn); Schiller, Maria Stuart (Holt and Co.); German and French Poems (Holt and Co.).

Four hours weekly.

**Second Year.**

SUMMER READINGS for students entering on their Second Year:—Schiller, Die Piccolomini (Holt); Riehl, Die vierzehn Nothelfer (A. B. Co.).

The examination on summer readings will be held in the first week of the session.

3. SESSIONAL LECTURES.—The Joynes-Meissner German Grammar; Horning, German Composition; Schiller, Wilhelm Tell (Holt); Lessing, Minna von Barnhelm, ed. Primer (Heath & Co.); Gœthe, Hermann und Dorothea (Ginn); Keller, Bilder aus der Deutschen Literatur (American Book Co.), edition 1905.

Four hours weekly.

For students in the advanced course an additional hour will be provided for the purpose of further study.

**Third and Fourth Years.**

SUMMER READINGS for students entering on their Third or Fourth Year:—Grillparzer, Der Traum ein Leben (Heath); Stifter, Das Heidedorf (Am. Book Co.).

The examination on summer readings will be held in the first week of the session.

4. For 1911-12:—Lessing, Nathan (Am. Book Co.); Goethe, Iphigénie (Pitt Press); Schiller, Wallenstein's Tod; Keller, Legenden (Holt and Co.).

PROSE COMPOSITION.—History of Literature, Gœthe; The Romantic School (Kluge).

Four hours weekly.

5. For 1912-13:—Lessing, Emilia Galotti; Kleist, Prinz Friedrich von Homburg (Ginn); J. B. Richter, Selections (A. B. Co.); Grillparzer, Sappho (Ginn); Sudermann, Der Katzensteg (Heath); History of German Literature, in the Classical Period (Kluge).

Prose Composition.

Four hours weekly.

### Honour Courses.

**Third and Fourth Years.**

The German Language alone is used in class instruction, and in order to obtain honours, candidates must be able to speak German fluently.

6. 1911-12. History of German Literature after 1850. One hour weekly.

7. Composition: — Perini, Extracts in English Prose (Hachette). One hour weekly.

8. Mediæval Literature and Philology.

For 1912-13:—A general outline of the development of the German Language and a special study of the Middle High German period, its language and literature.

The following books will be used:—Bachmann, Mittelhochdeutsches Lesebuch (Faesi and Beer, Zurich); F. Kaufmann, Deutsche Gramatik; Behagel, Die Deutsche Sprache.

Three hours weekly.

N.B.—Before entering on their Fourth Year course, honour students are expected to have read the following:—Lessing,— Minna von Barnhelm or Nathan der Weise, Emilia Galotti; Schiller, — Wilhelm Tell, Maria Stuart, Jungfrau von Orleans, Wallenstein, Ballads; Gœthe,—Gœtz von Berlichingen, Egmont, Hermann und Dorothea, Faust I, Poems; except when any of these texts are part of the readings prescribed for the ordinary course in the Fourth Year.

## Italian.

Lecturer:—Leigh R. Gregor.

**Third or Fourth Year.**

The following course, which may be given in 1911-12, is intended for beginners. Partial students who wish to join the class must give satisfactory evidence of their ability to keep up with the undergraduates.

Grandgent, Italian Grammar (Heath & Co.); Grandgent, Italian Composition (Heath & Co.); De Amicis, Selections from Il Cuore; Manzoni, Selections from I Promessi Sposi; selections from the Divina Commedia; Notes on some of the great names of Italian Literature.

Four hours weekly.

## Spanish.

LECTURER:—J. L. MORIN.

### First Year.

Hill and Ford, Spanish Grammar (Heath); Matzke, Spanish Readings (Heath); Valera, El Pajero verde (Ginn); Moratin, El si de las ninas (Ginn); Galdos, Dona Perfecta (Ginn).

Four hours weekly.

## DEPARTMENT OF ORIENTAL (SEMITIC) LANGUAGES AND LITERATURE.

PROFESSOR:—C. A. BRODIE BROCKWELL.
SESSIONAL LECTURER IN RABBINIC:—REV. NATHAN GORDON.
SESSIONAL LECTURER IN HEBREW:—REV. A. R. GORDON.
SESSIONAL LECTURER IN HELLENISTIC JEWISH LITERATURE:—REV. G. ABBOTT-SMITH.

The courses in this Department are intended to provide undergraduates in the Faculty of Arts with an exact knowledge of a limited portion of Semitic literature and history, combined with a general perspective of the whole Semitic field, including some of the leading contributions of Eastern civilization to Western thought and culture; and also to enable those who have attained sufficient knowledge in the same to pursue in the graduate school in much fuller detail many of the more important and attractive problems connected with Semitic philology, ethics, history and civilization. While the honour courses have been constructed with due regard to the respective claims of philology, ethics, history and archæology for the purpose of providing a comprehensive, useful and attractive form of mental training, they have also been carefully adapted to meet the needs of various students, *e.g.* those who are especially interested in the Eastern sources of our own civilization; those who require a knowledge of Arabic, either as candidates for the Indian or Egyptian civil service or because they intend to engage in Eastern trade and commerce; as well as of theological students of all persuasions, whether destined to labour ultimately at home or in the Oriental field.

Since the real value of a training in the Semitic Department lies in the honour work of the Third and Fourth Years, students are recommended to bear this in mind while taking the Hebrew of the Second Year, which is primarily intended to serve as a preparation for more advanced studies.

For honours, the student has a choice of one of four courses to which he is required to devote the whole of his time, *i.e.* either I. the combined Greek and Hebrew course; or II, the Hebrew; or III, the Arabic; or IV, the Aramaic and Syriac. In No. II the Hebrew language, in No. III the Arabic language and in No. IV the Aramaic language (including Syriac) forms the main linguistic study. Each of these three full honour courses includes at least three subjects (1) an exact study of the principal language by which the course in question is designated; (2) a less detailed study of one additional language and (3) a general knowledge of the history and literature connected with the principal language. In addition to these three subjects a "fourth" or "additional subject" is strongly recommended for all those who seek first class honours.

In each of the honour courses, II, III and IV, an elementary knowledge of Semitic comparative philology is also required.

Though the ordinary Hebrew course of the Second Year is intended primarily as a preparation for honour work, ordinary courses are also provided for the Third and the Fourth Years, and students who have taken the Hebrew of the Second and the Third Years can either continue the same language in the Fourth Year or substitute either Arabic, or Aramaic and Syriac, subject to the possibility of arranging the time tables satisfactorily. Pointing in the different systems, sight translation and the writing of proses, grammar papers and essays form a marked feature of all the courses.

### Ordinary Courses.

A. Hebrew Texts: — (1) Genesis I-XI; I Kings XVII-XXI; Psalms I-X.

(2) Genesis XLIX; Exodus XIV-XV; Deuteronomy V-X, XXXII, XXXIII; Judges IV and V; Jeremiah XXXI; and Proverbs I-IX.

(3) Selections from the Prophets.

(4) Ezra IV, 8; VI, 18 and VII, 12-26; Esther; The Mishna Tract; Pirke Abôth; and Selections from Rashi's Commentary on Genesis.

B. Semitic History (brief outlines of) with reference to recently discovered documents.

C. Textual and Literary Criticism with special reference to the Biblical texts prescribed in A (1) (2) and (3).

D. ARABIC:—The Arabic V.S. of Genesis I-XI; the Kur'an, Suras, I, LXI, LXXI, and CXIV; and Socin's Arabic Grammar, pp. 35 to 47.

E. ARAMAIC AND SYRIAC:—The Aramaic portions of Erza and Daniel; The Sermon on the Mount (Matt. 5-7) in the Peshitta and Curetonian V.S.S.; The Aramaic Sources and Sentences of the New Testament; and the Hymn of the Soul.

F. THE LITERATURE OF THE JEWISH HELLENISTS, with special reference to the Alexandrian Version. Text:—Selections from the Prophets.

LECTURES.

SECOND YEAR:—A (1) and B.
THIRD YEAR:—A (2) and C. or A (3) and F.
FOURTH YEAR:—A (3) continued or A (4) with either C or D or E or F.

HONOUR COURSES.

## I. Hebrew and Greek.

[For Greek, see page 65.]

The Hebrew subjects prescribed are the same as those in 1 and 2 of the full Hebrew honour course (No. II, below), with the addition of the following texts:—Jonah, Job XIX, Isaiah XLII, 1-4, XLIX, 1-6, L, 4-9, LII, 13, LIII, 12.

## II. HEBREW.

1. HEBREW TEXTS:—(*a*) Poetry:—Genesis XLIX; Exodus XV; Numbers XXI, XXIII, XXIV; Deuteronomy XXXII; Isaiah V, 1-7, XXXVIII, 9-21; Psalms I-X; Proverbs XXXI; Job XXXVIII-XLI.
(*b*) Prose:—Genesis I-XX; Exodus XIV, XX-XXI, XXXIV, 14-28; Deuteronomy V-VI, XVI; Judges IV; I King's XVII-XXI; Jeremiah X, 11, and XXXI; Ezekiel VIII; Obadiah; Ezra IV, 8 to VI, 18, and VII, 12-26; Esther, and Rashi's Commentary on Deuteronomy XXXII.

2. HISTORY:—The Prophets of Israel during the Assyrian Period.

3. ADDITIONAL LANGUAGE:—One only of the following:—

(1) *Arabic*:—The Arabic v. s. of Genesis I-XI; The Kuran, Suras I, LIII, LVII, LXI, LXXI, and CXIV; Muallakât, poem III; and pages 35 to 47 of Socin's Arabic Grammar and part of No. 30 in the Letters of Abu'Lala.

(2) *Aramaic*:—The ordinary course E with the addition of Merx, pages 11 to 57 and 132 to 139; Psalm 1 to 20 in the Peshitto, and the Selections in Brockelmann's Syriac Grammar.

(3) *Phœnician*, including Punic and Neo-Punic:—All the inscriptions in this language given in G. A. Cooke's North Semitic Inscriptions.

(4) *Ethiopic*:—Prætorius, pp. 31-45 and Du Chaine, pp. 228-244.

4. SPECIAL (OPTIONAL) SUBJECT:—One only of the following:—

(1) *Semitic Archæology*, including the history of the Hebrew alphabet from the earliest times up to 1100 A.D., a knowledge of the writing materials used, and all the inscriptions in Hebrew, Phœnician, Punic, Neo-Punic, Moabitish, Egyptian, Aramaic, Nabatæan and Palmyrene in G. A. Cooke's North Semitic Inscriptions, as well as Babelon's Manual of Oriental Antiquities.

(2) *The history of the composition of the Mishna and Talmud.*

(3) *Hebrew Poetry and Oratory.*

(4) *The principles of Higher Criticism and of Biblical Criticism in General.*

(5) *History of Jewish Literature from A.D. 70 to 1500.*

(6) *Hellenistic Jewish Literature.*

(7) *The primitive social, legal and religious customs and institutions of the Northern Semites as well as the most obtrusive myths and folklore embodied in the Scriptures.*

(8) *Comparative Philology of the Semitic Languages with special reference to Hebrew.*

## III. ARABIC.

1. ARABIC TEXTS: Kur'an Suras 1, 50-57, 61, 64, 71, 80-113; Muallakât, poems I, III, V.; the letters of Abu-'Lala, Nos. 2, 30; and the three following in the Semitic Study Series, *i.e.*, Sahih' Al-Buhari, pp. 1-10; Annals of Tabari, pp. 1-10, and Prolegomena of Ibn Khaldûn, pp. 1-10.

2. HISTORY:—General history of the Caliphate, with special reference to the Caliphs Abû Bakr, Omar, Othmân, Aly, Mansûr and Mustaasim.
3. ADDITIONAL LANGUAGE:—One only of the following:—
   (1) *Hebrew* as in the Ordinary Course A (1) and (2), (3) and (4).
   (2) *Aramaic* as in the Ordinary Course E.
   (3) *Phœnician* as in Hebrew Honour Course II.
   (4) *Ethiopic* as in Hebrew Honour Course II.
4. SPECIAL (OPTIONAL) SUBJECT:—One only of the following:—
   (1) *Semitic Archæology*:—Including the history of the South Semitic and classical Arabic alphabets in Isaac Taylor's "The Alphabet," Vol. I, Chaps. V and VI, Hommel's Südarabisches Chrestomathie, Lidzbarski's Altnordarabisches I and II, and Südarabische Iuschriften, both in Ephemeris fur Semitische Epigraphik; and Babelon's Manual of Oriental Antiquities.
   (2) *Arabian contributions to Western civilization and culture.*
   (3) *Arabic Poetry.*
   (4) *The Structure, contents and Ethics of the Kur'an.*
   (5) *History of Arabic Literature in Huart's Arabic Literature and De Boer's Philosophy in Islam.*
   (6) *The primitive myths, folklore, and social, legal and religious institutions, especially of the Southern Semites.*
   (7) *Comparative Philology of the Semitic Languages with special reference to Arabic.*

## IV. ARAMAIC.

1. ARAMAIC AND SYRIAC TEXTS:—As in Ordinary Course E, and II Hebrew Honour Course 3, (2), with addition of Berachoth in Lederer's selections from the Babylonian Talmud; and selections from The Peshitto, The Evangelion Da Mepharreshe, The Acts of Thomas, and of Sharbêl, Aphraates, Bardesanes; Julian the Apostate, Philoxenus, Petrus der Iberer, Kalilag and Damnag, Cause de la fondation des Ecoles, and Carmina Nisibena.
2. HISTORY:—The place of the Aramæans in history.

3. ADDITIONAL LANGUAGE:—One only of the following:—

(1) *Arabic*:—As in Ordinary Course D, with the addition of Suras 53, 57, and 71.

(2) *Hebrew*:—As in Ordinary Course A (2), (3) and (4).

(3) *Phœnician*:—As in II Hebrew Honour Course.

(4) *Ethiopic*:—As in II Hebrew Honour Course.

4. SPECIAL (OPTIONAL) SUBJECT:—One only of the following:—

(1) *Semitic Archæology*:—Including the history of the Aramæan alphabets; all the most important Aramaic Inscription dockets and papyri Assyrian, Syrian, Arabian, Nabatæan, Palmyrene, Sinatic, old Egyptian and Assuan, and Babelon's Manual of Oriental Antiquities.

(2) *The history and significance of Syriac literature.*

(3) *The principles of Syriac poetry and oratory.*

(4) *The Structure, contents and ethics of the Talmud.*

(5) *The history of the genesis and development of the Neo-Hebrew language and literature.*

(6) *The literary influence of Aramaic upon Jewish and Early Christian Literature.*

(7) *Comparative Philology of the Semitic Languages with special reference to Aramaic.*

## DEPARTMENT OF PHILOSOPHY.

PROFESSOR:—W CALDWELL.
ASSOCIATE PROFESSOR OF LOGIC AND METAPHYSICS:—
J. W. A. HICKSON.
SESSIONAL LECTURER IN EXPERIMENTAL PSYCHOLOGY:—
WILLIAM D. TAIT.

The courses in this Department are designed to meet the wants of students in the Faculty of Arts, of students in the professional schools, of partial students and of graduates.

In all the ordinary courses such topics as the subject of scientific method, the relation of ethics to legal and social questions, the relations of psychology and philosophy to education, etc., are definitely kept in view.

Attention is drawn to the fact that it is now possible for students (graduate and others) to specialise in psychology as well as in mental and in moral philosophy.

ORDINARY COURSES.

**Second Year.**

1A. Elementary Psychology: — An introduction to the science. Text-Book: Titchener, Text-book of Psychology. Mon. and Tues., at 2 p.m. Dr. Tait.

1B. Logic.—A course in the Elements of Logic, including the fallacies. Fortnightly exercises.

Text-Book: S. H. Mellone, Introductory Text-Book of Logic, (*fourth edition*) omitting section 5 chap. IV and chaps. IX and XI. Use will be made of Lafleur's Illustrations of Logic.

Thursday and Friday, at 2 p.m. Dr. Hickson.

1C. Introduction to Philosophy.—A short course of twelve lectures upon the nature of philosophy and its relation to the sciences, and its place as a university study. Study and class-room discussion of some easy piece, or pieces, of typical philosophical literature such as Descarte's Discourse on Method or Berkeley's "Three Dialogues" or Plato's Phædo. These lectures will take the place for some weeks of the ordinary lectures in 1A or in 1B. Dr. Caldwell.

**Third or Fourth Year.**

2A. Moral Philosophy:—Outlines of ethics as the science; morality in the race and in the individual; the postulates and divisions of ethical science; theories of conscience and of the moral standard; the ethics of idealism and the ethics of evolution.

2B. Applied Ethics:—Ethics and the sociological movement of recent times; the ethics of the social questions; the duties and the virtues and the unity of the moral life; moral pathology; moral training; the ethical problem of the present time. M. T. Th. F., at 12. Dr. Caldwell.

3. Experimental Psychology.—An elementary laboratory course. Text book; Myer's Text book of Experimental Psychology. Four hours per week. Dr. Tait.

4A. Logic of Scientific Method.—Theory of induction and its pre-suppositions; methods of scientific proof; relation of the historical to the physical sciences; use of the theory of probabilities; classification of the sciences.

4B. Introduction to the theory of knowledge; relation of epistemology to logic, metaphysics, and psychology; pre-suppositions of logic; problem of perception and the reality of the external world; relation of thought to reality; nature and criterion of truth.

*Works of Reference*: Mill, System of Logic, Books III and VI; Jevons' Principles of Science; Sigwart's Logic, Vol. II; Hobhouse, Theory of Knowledge.

Mon., Tues., Thurs., and Fri. at 4 p.m. throughout the session. May be given alternately with course 5. Dr. Hickson.

5A. History of Modern Philosophy.—First Term: From the Renaissance to Kant.

5B. History of Modern Philosophy.—Second Term: From Kant to the Present Time.

*Works of Reference*:—The various Histories of Philosophy, by Falckenberg, Höffdig, Weber, etc. Use will be made of Rand's Modern Classical Philosophers.

Four hours a week. Dr. Caldwell and Dr. Hickson.

6. Educational Psychology:—Experimental results and their application to educational methods. Two hours per week throughout the session. Dr. Tait.

7. History of Psychology:—An advanced course following the development of problems. Prescribed readings. Two to four hours. Dr. Tait.

## Honour and Graduate Courses.

8. Theory of Knowledge and Metaphysics for fourth year and graduate students only.—An advanced course dealing with such problems as: Conditions and limits of knowledge; space and time; the cosmological problem; nature of reality; mind and body; realism and idealism; monism and pluralism; teleology. An essay will be required.

*Books of Reference*: Riehl, Philosophischer Kriticismus, Part II; Taylor, Elements of Metaphysics; Ward, Naturalism and Agnosticism; Bergson, Creative Evolution.

Three hours weekly. Dr. Hickson.

9. Advanced Moral Philosophy.—Designed to meet the wants of students who have taken course 2. or who are otherwise competent to undertake the study of the more important works (classical, modern, and recent) upon the theory of morals, or to pursue the study of special questions in ethics and social philosophy. Two to four hours weekly. Dr. Caldwell.

10. A course in Greek Philosophy.

Pre-Socratic physicists in Ionia, Italy and Sicily. The Athenian Period, and the rise of systematic logic, ethics and psychology; Socrates, Plato, Aristotle; general diffusion of philosophy over ancient life as a rule of conduct; Stoicism, Epicureanism, Scepticism, Neo-Platonism.

*Books of Reference*:—The various source-books, such as Ritter and Preller, Fairbanks, Bakewell, Wallace, etc. Zeller's Outlines and History; Aristotle's Metaphysics, Book I, Taylor's Translation.

Two hours, or more, weekly. Dr. Caldwell.

11. The Philosophy of Kant.—Lectures, discussions in class and papers, with the aim of determining the significance of the critical philosophy at the present time.

Two hours weekly. Dr. Caldwell or Dr. Hickson.

12. Psychological Laboratory:—Research in human psychology by advanced students. Four hours per week. Dr. Tait.

13. Psychological Seminary:—Subject for the year, The application of experimental psychology to education, law, medicine, etc. Two consecutive hours per week. 7.30-9.30 p.m. Dr. Tait.

14. Seminary in Philosophy.—Proposed subjects for the year—Modern problems in philosophy. Dr. Caldwell; *or*, reading and discussion of Hume's Treatise of Human Nature. Dr. Hickson. Two hours weekly.

Graduate study and Seminary Work may be undertaken in connection with any of the more advanced of the above courses, and with any other courses that may be drawn up for the special needs of students. All such work, however, will as a rule depend upon the previous training of the student, and upon his capacity for original research under the personal guidance of members of the Department.

*Summer Readings.*—All students in philosophy, after the Second Year in Arts, are encouraged to undertake a course of summer reading in connexion with their winter work.

Those contemplating graduate work are recommended to correspond with the Department in the spring or summer preceding their period of registered study.

## DEPARTMENT OF HISTORY.

PROFESSOR:—CHARLES W. COLBY.
ASSISTANT PROFESSOR:—C. E. FRYER.
TUTOR:—ETHEL HURLBATT.

### ORDINARY COURSES.

**First Year.**

1. Epochs of European History.

An introductory course, intended as a survey of the general history of Europe. Emphasis will be laid upon the essential differences between ancient, mediæval and modern history, and upon the characteristics of the successive periods into

which these larger divisions fall. Students will be required to provide themselves with an historical school atlas. A list of readings for reference will be announced at the beginning of the course.

**Second Year.**

2. England in the Eighteenth Century.

A survey of political development, social conditions and colonial expansion between 1688 and 1784. Readings will be assigned and tested by short papers in the class-room.

Two hours a week.

**Third or Fourth Year.**

3. The History of Europe from the accession of Augustus to the death of Luther, B.C. 27—A.D. 1546.

In this course special attention will be given to institutions and movements. Topics for investigation will be assigned, and students will write at least one thesis during the year. Readings to accompany each lecture are assigned in the syllabus for the course.

Four hours a week.

HONOUR COURSES.

**Third and Fourth Years.**

4. The Renascence. Two hours a week.

5. The Early Reformation. Two hours a week.

6. The Catholic Revival and the Thirty Years' War. Two hours a week.

7. The History of England since 1784. Four hours a week.

8. The Political and Constitutional History of Europe since 1789. Four hours a week.

9. Canada, Government and Public Policy. Four hours a week for the first term.

10. English Constitutional History—1307. Two hours a week.

11. History of Canada, 1810-1867. Two hours a week.

12. Topics in Recent History. A discussion of political questions and tendencies since the Franco-German war, with special reference to the partition of Africa, the Eastern question and the shaping of the Far East. The consolidation of the British Empire and the position of the United States as a world power will be touched upon.

This course is open only to graduates and advanced undergraduates.

*Texts*:—Honour students in History will be examined at the end of the Third Year on the following texts:—Herodotus, VI-VII, Macaulay's trans.; Thucydides, I, II, 1-65, VI, VII, Jowett's trans.; Plutarch, The Lives of Themistocles, Pericles, Pyrrhus, Caius Gracchus, Cato the Younger, and Julius Cæsar, Clough's trans.; Polybius, Book VI-IX, Shuckburgh's trans.; Livy, Books XXI-XXII, Church and Brodribb's trans.; Tacitus, Annals, Book I, Germania, Vita Agricolæ, Church and Brodribb's trans.

Honour students in History will be examined at the end of the Fourth Year on the following texts:—Clarendon, History of the Rebellion, Book VII; Burnett, History of My Own Time, Book IV, from the beginning of 1689 to the end of the book; Gibbon, Decline and Fall, chapters I, II, III, XXIII, L, LVII, LVIII; Burke, Reflections on the French Revolution; Macaulay, History of England, chapters IV-IX; Captain Mahan, Influence of Sea Power on History; Buckle's History of Civilization, chapters I-II; Parkman, Montcalm and Wolfe; Lord Acton, Lectures on Modern History.

In addition to the above, a certain amount of work may be done in another Department.

## DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE.

PROFESSOR:—STEPHEN B. LEACOCK.
ASSISTANT PROFESSOR:—J. C. HEMMEON.

### ORDINARY COURSES.

**Second Year.**

1. ELEMENTS OF POLITICAL ECONOMY.

Two hours per week throughout the session. Dr. Leacock.
*Text-Book*:—John Stuart Mill, Principles of Political Economy.

**Third or Fourth Year.**

2. PRINCIPLES OF ECONOMIC THEORY.
Four hours per week throughout the session. Dr. Hemmeon.

3. PRINCIPLES OF POLITICAL SCIENCE.
Four hours per week throughout the session. Dr. Leacock.

## HONOUR AND CONTINUATION COURSES.

4. MONEY AND BANKING. Four hours per week during the last half of the session. Dr. Leacock. (Omitted in 1911-12.)

5. ECONOMIC HISTORY. Four hours per week during the first half of the session. Dr. Hemmeon. (Omitted in 1911-12.)

6. POLITICAL ECONOMY PRIOR TO THE NINETEETH CENTURY.

Four hours per week during the first half of the session. Dr. Hemmeon.

7. POLITICAL ECONOMY IN THE NINETEENTH CENTURY.

Four hours per week during the second half of the session. Dr. Leacock.

8. THE GOVERNMENT OF CANADA.

Four hours per week during the first half of the session. Dr. Leacock.

9. PUBLIC FINANCE.

Four hours per week during the last half of the session. Dr. Hemmeon.

10. TRANSPORTATION PROBLEMS.

Two hours per week throughout the session. Dr. Hemmeon.

Honour students of the Third Year will take Courses 2, 3, 6, 7, together with ordinary history or French or philosophy of the Third Year.

Honour students of the Fourth Year will take Courses 6, 7, 8, 9, 10; together with a half course in history, French, philosophy or Roman law as arranged in consultation with the Department.

Students of the Fourth Year who have taken the Third Year ordinary course in political economy may offer as a continuation, Course 3 or Courses 6 and 7.

Students of the Fourth Year who have taken the Third Year ordinary course in political science may offer as a continuation, Course 2 or Courses 8 and 9.

Four Exhibitions known as the Mackenzie Exhibitions, are awarded annually in the Department, two of the value of one hundred dollars and two of the value of fifty dollars. For regulations see page 41.

## DEPARTMENT OF EDUCATION.

PROFFESSOR:—J. A. DALE.
SESSIONAL LECTURER IN EXPERIMENTAL PSYCHOLOGY:—
WILLIAM D. TAIT.
HEAD OF THE SCHOOL FOR TEACHERS, MACDONALD COLLEGE:—
S. B. SINCLAIR.

[For the staff of the School for Teachers, see General Announcement.]

### First and Second Years.

Students intending to be teachers may, if they wish, consult Prof. Dale as to their courses.

### Third or Fourth Year.

1. HISTORY OF EDUCATION.
(*a*) Ancient and Mediæval (not given in 1911-12).
(*b*) Modern and Contemporary. Two hours a week, M. 5 Th. 5. Prof. Dale.

2. (*a*) THEORY AND PRACTICE OF EDUCATION. Two hours a week, T. 9, Th. 9. Prof. Dale.

2. (*b*) SCHOOL ORGANIZATION AND MANAGEMENT. In conjunction with 2 (a) a short course will be given by Dr. Sinclair.

3. OBSERVATION AND PRACTICE WORK. 50 half days.
These courses (1-3), are required for the First Class Academy Diploma of the Province of Quebec. 3 can be taken largely out of term-time, and may be divided between the years. Course 4 may, with the approval of the Department, be taken as an option for one of the courses 1 and 2.
Exemptions are given on evidence of previous successful experience in teaching, so long as the total credits do not interfere with specified practice. Credit is given for attendance on courses 5, 6, and 7, where satisfactory to the instructors; and this is recorded on the diplomas.

4. EDUCATIONAL PSYCHOLOGY. For students who have taken Second Year Psychology, or take it concurrently with this course. In 1911-12 Fourth Year students will be admitted without this prerequisite. Two hours a week, M.5, F.5. Dr. Tait.

5. PHYSICAL EDUCATION. A course of 20 lessons of 1½ hours each is offered on the principles and practice of physical education. The course will cover elementary anatomy, physiology and hygiene, the theory of gymnastics and class teaching.

Students will be required to give four lessons (practical) to children, in the presence of the physical director, and to take an examination. Tuesday, 5. Miss Cartwright and Dr. Harvey.

6. SCHOOL ART. A course of 20 lessons is offered on the principles and practice of art in relation to school-work: comprising brush-work, drawing, blackboard work, elements of design and education. After Christmas, Sat. 9. Prof. Armstrong.

7. NATURE STUDY. Fourth Year students may take a half-course (4) in the Botanical Department. For details of this course, which is especially adapted to teachers of nature study and to students of education, see page 107.

POST-GRADUATE COURSE.

8. SEMINAR:—Readings, reports, thesis. Two consecutive hours, alternate weeks, throughout the session. Prof. Dale and Dr. Tait.

COURSE FOR ELEMENTARY AND MODEL SCHOOL DIPLOMAS.

The training for these diplomas is conducted at Macdonald College.

An exhibition of $150 is offered in the Faculty of Arts to the best applicant from the Model Class, who has fulfilled the entrance requirements. (See page 34.)

## CONSTITUTIONAL LAW.

PROFESSOR:—F. P. WALTON.

The Constitutional Law of Canada will be treated in the following order:—(1) Canadian Constitutional History, prior to Confederation; (2) the British North America Act, and the leading cases under it which illustrate the respective powers of the Dominion and the Provinces; (3) the fundamentals of English Constitutional Government which form the basis of the Canadian Constitution; (4) the Cabinet System; (5) the difference between English and French practice as to responsibility of officials.

Two hours a week.

## ROMAN LAW.

PROFESSOR:— F. P. WALTON.

A course is offered in Roman Law, open to Third and Fourth Year students in Arts, and qualifying as an option for the B.A. Degree. Details are given in the announcement of the Faculty of Law.

## DEPARTMENT OF MATHEMATICS.

PROFESSOR:—J. HARKNESS.
ASSOCIATE PROFESSOR:—A. S. EVE.
ASSISTANT PROFESSOR:—T. RIDLER DAVIES.
LECTURER:—J. B. MABON.

### ORDINARY COURSES.

**First Year.**

1. PLANE AND SOLID GEOMETRY.—The equivalent of Books IV, VI and XI of Euclid, with supplementary matter from Hall and Stevens' Euclid. Two hours a week (before Christmas). Mr. Davies.
ALGEBRA.—Hall and Knight's Elementary Algebra (omitting chapters 40-42 inclusive), or the same subject matter in similar text books. Two hours a week, (after Christmas). Mr. Davies.
TRIGONOMETRY.—Hall and Knight's Elementary Trigonometry to page 210 and chapter 19; Nature and use of logarithms [Bottomley's four figure tables]. Two hours a week, throughout the session. Mr. Davies.

**Second Year.**

2. GEOMETRY.—(*a*) Solid Geometry, continuation of the First Year; (*b*) Geometrical Conic Sections, Wilson's Solid Geometry and Geometrical Conics. Three hours a week, before Christmas. Mr. Davies.
ALGEBRA.—Permutations and combinations; binomial theorem; exponential and logarithmic series; interest and annuities; undetermined coefficients; partial fractions; summation of typical series; probabilities; determinants; graphic methods. Three hours a week, after Christmas. Mr. Davies.
*Text-Book*:—Hall and Knight's Higher Algebra.
SPHERICAL TRIGONOMETRY.—A short course compulsory for students proceeding to the Faculty of Applied Science. Students taking the advanced course in mathematics are recommended to take this course.

**Third or Fourth Year.**

3. ELEMENTARY ANALYTICAL GEOMETRY.—Elementary parts of the differential and integral calculus; simple differential equations. Prof. Harkness, two hours a week; Prof. Eve, two hours a week.

4. ASTRONOMY. — This course is intended to give a general account of the main facts of astronomy, and the methods by which these facts are obtained. It may be taken by students who have attended the ordinary or advanced courses in mathematics of the first two years. Two hours a week. Mr. Davies.

ADVANCED COURSES.

**First Year.**

5. GEOMETRY AND TRIGONOMETRY.—As in ordinary course. Before Christmas; MODERN PURE GEOMETRY. After Christmas. Prof. Eve. Two hours a week. HIGHER ALGEBRA.—Hall and Knight; theory of equations (part of Burnside and Panton). HIGHER TRIGONOMETRY (Carslaw). Prof. Harkness. Two hours a week.

**Second Year.**

6. ANALYTICAL GEOMETRY.—C. Smith. Prof. Eve. Two hours a week. Infinitesimal Calculus (Lamb; Osgood). Prof. Harkness. Two hours a week.
Students are recommended to take the special short course in spherical trigonometry.

7. DYNAMICS, STATICS AND HYDROSTATICS.—For students who are proceeding (1) to the Faculty of Applied Science, or (2) to Third Year honours in Mathematics in Arts. Prof. Eve. Two hours a week.

HONOUR COURSES.

**Third Year.**

8. Selected topics in differential and integral calculus.
9. Differential equations.
10. Geometry of three dimensions.
11. Vector analysis.

Profs. Harkness and Eve. Four hours a week.
In addition students reading for honours will be required to take courses under Physics.

**Fourth Year.**

The courses given will be selected from the following:—
12. Introduction to the theory of functions.
13. Elliptic functions.
14. Lectures in connection with Scott's Modern Analytic Geometry and the early chapters of Salmon's Higher Plane Curves.

15. Lectures on modern geometry, based on Reye's Geometry of Position.

Professor Harkness. Five hours a week.

In addition students reading for Honours will be required to take courses under Physics, as arranged by the Physics Department.

## DEPARTMENT OF PHYSICS.

PROFESSORS:—{ HOWARD T. BARNES. HAROLD A. WILSON.

LECTURER:—F. H. DAY.

SESSIONAL LECTURER:—L. V. KING.

LECTURER IN RADIO-ACTIVITY:—A. S. EVE.

DEMONSTRATORS:—{ N. E. WHEELER. J. C. POMEROY.

ASSISTANT DEMONSTRATORS:—{ J. B. MABON. J. W. HAYWARD. H. E. REILLEY.

### ORDINARY COURSES.

**First Year.**

1. PHYSICS.—This course has two objects: (1) to give the minimum acquaintance with physical science requisite for a liberal education to those whose studies will be mainly literary; (2) to be introductory to the courses in chemistry and other branches of natural science, and to the more detailed courses in physics in the Third and Fourth Years. Only the most important principles in each branch of the subject will be treated, as far as possible, with reference to their historical development and mutual relations. Two lectures will be given per week which will be fully illustrated by experiments. During the session each student will be required to attend in the laboratory and make measurements involving the use of the following instruments:—*balance, pendulum, barometer, thermometer, sonometer, telescope, microscope, tangent galvanometer, Wheatstone's Bridge.* Text-book Gregory and Hadley, Macmillan. Full course. Tues. and Thurs. at 2. Mr. Day.

**Second Year.**

2. MECHANICS AND HYDROSTATICS.—Two hours a week. (See page 98, course 7.)

**Third Year.**

3. EXPERIMENTAL PHYSICS.—(*Full Course.*) —Laws of energy, heat, sound and light. *Text-book*:—Deschanel's Heat, Sound and Light. (Special Edition, Renouf Publishing Co.) Tuesday and Thursday mornings. Prof. Barnes.
Laboratory Course, three hours a week.
*Text-book*:—Tory and Pitcher.

**Fourth Year.**

4. EXPERIMENTAL PHYSICS.—(*Full Course.*)—Electricity and Magnetism. Monday and Friday or Wednesday and Saturday mornings. *Text book*:—Whetham's Experimental Electricity. Prof. Wilson.
Laboratory Course, three hours a week.
*Laboratory Manual.*—Tory and Pitcher.

HONOUR COURSES.

**Third and Fourth Years.**

5. Analytical statics; dynamics of a particle; rigid dynamics; hydromechanics.
6. Properties of matter.
7. Heat, thermodynamics and sound.
8. Electrical measurements.
9. Elements of electrical and optical theory.
10. Advanced course in electrical and optical theory.
11. Radioactivity.

## DEPARTMENT OF CHEMISTRY.

PROFESSOR:—J. WALLACE WALKER.

ASSOCIATE PROFESSORS:—NEVIL NORTON EVANS. DOUGLAS McINTOSH.

ASSISTANT PROFESSOR:—F. M. G. JOHNSON.

DEMONSTRATORS:—V. J. HARDING. V. K. KRIEBLE. W. BUELL MELDRUM. H. W. MATHESON. J. NICOLLS.

PROFESSOR OF ORGANIC AND BIOLOGICAL CHEMISTRY (FACULTY OF MEDICINE):—R. F. RUTTAN.

### ORDINARY COURSES.

**Second Year.**

1. GENERAL CHEMISTRY.—A course of lectures on elementary chemical theory, and on the principal elements and their compounds. The lectures are fully illustrated by means of experiments. Dr. Walker.

   *Text-books*:—Holleman's Text-book of Inorganic Chemistry (Translation by Cooper); Remsen's Organic Chemistry. *For Reference*:—Bloxam's Chemistry. Three hours a week.

   ELEMENTARY PRACTICAL CHEMISTRY.—This course is compulsory for all undergraduates taking the above course of lectures. The work includes experiments illustrative of the laws of chemical combination, the preparation of pure chemical compounds, and elementary qualitative analysis. Four hours a week.

**Third or Fourth Year.**

2. ORGANIC CHEMISTRY.—A general introductory course of lectures on organic chemistry. Dr. Walker.

   *Text-book*:—Holleman's Organic Chemistry, or Remsen's Organic Chemistry. Three hours per week during the first term.

3. INORGANIC CHEMISTRY.—A course on historical and physical chemistry. Two hours per week during the second term. Dr. Johnson.

4. ADVANCED PRACTICAL CHEMISTRY.—The preparation of simple organic substances in the first term, and laboratory practice in methods of gravimetric and volumetric analysis during the second term.

   *Text-book*:—Holleman's Laboratory Manual of Organic Chemistry. Three hours a week in the first term and six hours a week in the second.

## Honour Courses.

### Third Year.

Honour students in the Third Year will be required to take all the ordinary courses of that Year and in addition a course in qualitative analysis, with extra reading. They are also required to take Course No. 3 in Physics (page 100), and a half-course in calculus or biology or geology or mineralogy.

### Fourth Year.

5. Organic Chemistry.—A systematic course of lectures on organic chemistry, including the analysis of organic substances, calculation of formulæ, determination of molecular weights, polymerism, isomerism, etc., followed by a discussion of the more important derivatives of the aliphatic and aromatic series of compounds. Two hours a week. Dr. Walker.
6. Practical Organic Chemistry.—A complete course on the preparation and analysis of organic substances, with determinations of molecular weights, etc.
7. Physical Chemistry.—The lectures are a continuation of those given during the Third Year and include thermo-chemistry, the principles of thermodynamics as applied to chemical action, osmotic phenomena and their application in deducing the ionisation theory of solutions, a study of such physical properties of gases, liquids and solids as are known to depend on their chemical constitution, the phase rule and electro-chemistry.
   Two hours a week. Dr. McIntosh.
   *Books of Reference*:—Ramsay's Text-Books of Physical Chemistry.
8. Practical Physical Chemistry.—Laboratory work will include the various methods of determining the molecular weights of gases and of substances in solution, accurate measurement of densities, refractive indices, surface tensions and specific rotations; also examples of chemical statics and kinetics, and electro-chemical measurements.
9. Quantitative Analysis.—An extensive course including both inorganic and organic methods. Dr. Walker and Dr. Johnson.

In the Fourth Year, honour students will select either courses 5, 6, 7 and 8 *or* 7, 8 and 9. In addition to these they must take course No. 4 in Physics (page 100).

## DEPARTMENT OF GEOLOGY AND MINERALOGY.

PROFESSOR:—FRANK D. ADAMS.

ASSISTANT PROFESSOR:—J. AUSTEN BANCROFT.

ASSISTANT PROFESSOR OF MINERALOGY:—RICHARD P. D. GRAHAM.

LECTURER:—JOHN STANSFIELD.

SESSIONAL LECTURER:—ALFRED E. BARLOW.

### ORDINARY COURSES.

**Second Year.**

1. PHYSICAL AND COMMERCIAL GEOGRAPHY.—This course will be devoted to a study in outline of the physical features of the earth, and their influence upon commerce, especially upon the distribution and utilization of commercial commodities. In so far as practicable, a study will be made of the resources of the various countries of the world, and especially of the Dominion of Canada.

Two hours a week throughout the year. Mr. Stansfield.

N.B.—This forms part of the Commercial Course of the First Year.

**Third Year.**

2. GENERAL GEOLOGY.—The lectures will embrace a general survey of the whole field of geology, and will be introduced by a short course in mineralogy. Especial attention will be devoted to dynamical geology and to historical geology, including a description of the fauna and flora of the earth during the successive periods of its past history.

The lectures will be illustrated by the extensive collections in the Peter Redpath Museum, as well as by models, maps, sections and lantern views. There will be an excursion every Saturday until the snow falls, after which the excursion will be replaced by a demonstration in the Museum.

*Text-book*:—Scott, An Introduction to Geology.

*Books of Reference*:—Dawson, Hand-Book of Geology; Dana, Manual of Geology.

Three hours a week throughout the year, with additional excursions and demonstrations as above stated. Dr. Adams and Dr. Bancroft.

## Honour Courses.

### Third Year.

In the Third Year, students pursuing the honour course will take General Geology, 2.

3. Mineralogy.—Lectures and demonstrations illustrated by models and specimens in the Peter Redpath Museum and the Macdonald Chemistry and Mining Building. Among the subjects discussed are:—crystallography; physical properties of minerals dependent upon light, electricity, state of aggregation, etc.; chemical composition, calculation of mineral formulæ, quantivalent ratios, etc.; principles of classification, description of species.

   Two hours a week. Mr. Graham.

4. Determinative Mineralogy.—Laboratory practice in blow-pipe analysis and its application to the determination of mineral species. This work is carried on in the laboratory provided for the purpose in the Chemistry and Mining Building.

   Wednesday and Thursday, 2 to 6 p.m. in second term. Mr. Graham and Mr. Stansfield.

### Fourth Year.

5. Mineralogy (In continuation of No. 3).—Description of species, particular attention being paid to those which are important as rock constituents and to the economic minerals of Canada; measurement of the angles of crystals with the reflection goniometer; projection of crystal forms, calculation of axial ratios of crystals; drawing of crystal forms; use of the polarising microscope; axial angle apparatus, etc.

   First term, two hours a week. Mr. Graham.

6. Petrography.—The modern methods of study employed in petrography are first described, and the classification and description of rocks are then taken up.

   One lecture a week during the first term. One afternoon a week throughout the year will be devoted to special microscopical work in the Petrographical Laboratory. Dr. Bancroft, Mr. Graham and Mr. Stansfield.

   *Text-books*—Harker, Petrology for Students.

   *Books of Reference*:—Rosenbusch, Microskopische Physiographie, and Zirkel, Lehrbuch der Petrographie.

7. A. PALÆONTOLOGY.—An extension of the palæontology of Course 2, with special studies of some of the more important groups of fossils.

One lecture a week during the second term and one demonstration a week, with special studies in the Peter Redpath Museum. Mr. Stansfield.

*Books of Reference*:—Nicholson and Lydekker, Manual of Palæontology; Zittel & Eastman, Text-Book of Palæontology.

*or*

7. B. PHYSIOGRAPHY.—A description of land forms with reference to their origin, classification, drainage, development, climatic and human controls.

The physical features of Canada will be described during the latter half of the course.

The course will consist of lectures, demonstrations, and laboratory work, and will be illustrated by maps, models, and lantern slides.

Two hours a week during the first term. Dr. Bancroft.

*Books of Reference*:—Davis, Physical Geography; Mill, The International Geography.

8. ORE DEPOSITS AND ECONOMIC GEOLOGY.—The nature, mode of occurrence and classification of ore deposits will first be taken up. A series of typical occurrences will then be described and their origin discussed—the more important non-metallic materials—*e.g.*, fuels, clay, abrasive materials, building stones, etc., will be similarly treated, as well as questions of water supply, artesian wells, etc.

The course will be illustrated by maps, models, lantern slides, and specimens.

Four lectures a week throughout the second term. Dr. Adams.

*Text-books*:—Geikie, Outlines of Field Geology; Kemp, Ore Deposits of the United States and Canada; Phillips and Louis, A Treatise on Ore Deposits; Beck, Ore Deposits.

*Books of Reference*:—The Reports of the Geological Survey of Canada and the Monographs of the U. S. Geological Survey.

9. Economic Geology.—This course is a continuation of the general geology of the Third Year and commences with the consideration of the structural features of the earth's crust, resulting from sedimentation, folding, faulting, the various phases of igneous intrusion, etc., with special reference to engineering problems. A discussion of the methods employed in carrying out g o-logical and magnetic surveys and in the construction of geological maps and sections, as well as the interpretation of these, is then taken up.

One lecture a week throughout the first term. Dr. Bancroft.

10. Canadian Geology.—A general description of the geology and mineral resources of the Dominion.

One lecture a week during the first term. Dr. Bancroft.

*Text-book*:—Dawson, Hand-book of Geology.

*Books of Reference*:—The Reports of the Geological Survey of Canada.

11. Geological Colloquium.—A discussion each week of some geological topic, references to the literature of which have been given in the week preceding. The course is intended to give students some acquaintance with geological literature, as well as a wider knowledge of the great principles which underlie the science.

One hour a week throughout the year. Dr. Adams, Dr. Bancroft, Mr. Graham and Mr. Stansfield.

12. Geological Survey.—Candidates for honours in the Fourth Year will also undertake, under the direction of the Department of Geology, a geological survey of some suitable area selected for that purpose. This survey will occupy two weeks, and will be made either at the close of the Third Year or immediately before the opening of the regular work of the Fourth Year, as may be arranged by the Professor of Geology. The preparation of a geological map of the surveyed area, the examination of the specimens collected, and the writing of a detailed report upon the area, will form part of the work of the Fourth Year.

N.B.—A large amount of additional private reading will also be required of candidates for honours.

Honour students of the Third Year will take courses 2, 3, and 4 and also course 2 under Zoology and courses 2 or 3 and 4 under Chemistry; Fourth Year honour students will take courses 5 to 12, and a half-course in Botany.

## DEPARTMENT OF BOTANY.

PROFESSOR:— ———— ————
ASSISTANT PROFESSOR:—C. M. DERICK.
DEMONSTRATOR:— ————

### ORDINARY COURSES.

**Second Year.**

1. PLANT BIOLOGY.—A course in the general principles of morphology, classification and physiology, illustrated by means of types taken from the principal groups of plants.

This course together with that in Animal Biology constitutes the course in Elementary Biology.

Two lectures and two laboratory periods each week, during the second half of the session.

**Third Year.**

2. SPECIAL MORPHOLOGY OF THE THALLOPHYTA AND BRYOPHYTA.

Selected types are used to illustrate the origin of organs, the origin and development of sex, the division of labour and the general laws of development. The forms studied include bacteria, algæ, fungi, lichens, liverworts and mosses.

Two lectures and two laboratory periods each week throughout the session.

**Fourth Year.**

3. SPECIAL MORPHOLOGY OF THE PTERIDOPHYTES AND SPERMAPHYTES.

The study of a series of selected types, illustrating the structure, origin, relationships and adaptations to environment of ferns, horsetails, club mosses and seed plants.

Two lectures and two laboratory periods each week throughout the session.

4. A half-course in general botany especially designed for teachers and for students of education. The subject is discussed from the point of view of the teacher of Nature Study and methods of treating the various topics in schools are considered. The work is based upon observations made in the field and in greenhouses as well as upon living material in the laboratory. One lecture and one laboratory period or excursion throughout the session.

HONOUR COURSES.

(*In Biology.*)

**Third Year.**

For work in Zoology, see page 109.

5. Candidates for honours in the Third Year will, in addition to the ordinary work in botany of that Year, read Mendel's Principles of Heredity by Bateson, and Species and Varieties by de Vries. Themes upon selected topics will be required. A weekly colloquium or lecture and demonstration.

**Fourth Year.**

6. Candidates for honours in the Fourth Year will, in addition to the ordinary work in botany, take plant physiology. Two lectures and two laboratory periods each week throughout the session, together with selected readings.

SUMMER COURSE.

7. A study of plants growing in the neighbourhood of Montreal.

Two lectures, one laboratory period and one field day each week from May the first until June the fifteenth.

## DEPARTMENT OF ZOOLOGY.

PROFESSOR:—ARTHUR WILLEY.
ASSOCIATE PROFESSOR OF HISTOLOGY AND EMBRYOLOGY:—J. C. SIMPSON.
LECTURER:—J. STAFFORD.
DEMONSTRATOR:— ————————

**Second Year.**

1A. ANIMAL BIOLOGY.

This course consists of a careful study of the laws of biology as illustrated by a selected series of types.

Two lectures and two demonstrations a week up till Christmas.

This course, taken along with the corresponding course in botany, constitutes the course in general biology.

1B. ANIMAL PHYSIOLOGY.

This course includes a study of the principal organic compounds found in the animal body and also of the principal functional activities of vertebrates.

Two lectures and one demonstration a week from Christmas till Easter.

This course is to be taken by those students who intend to qualify for the Ontario specialists' certificate in biology. It

is recommended to all those who intend to proceed to honours in biology and to those who may desire to take it as an extra course without proceeding to honours.

**Third or Fourth Year.**

2. GENERAL ZOOLOGY.

This course consists of a general review of the classes of the animal kingdom. Special attention is given to parasitic forms and those responsible for the production of disease.

Two lectures and two demonstrations a week throughout the session.

CONTINUATION COURSES.

**Fourth Year.**

3A. ANIMAL MORPHOLOGY.

This course includes a systematic study of the principal types of vertebrate animals.

Two lectures and two demonstrations a week throughout the session.

3B. COMPARATIVE EMBRYOLOGY.

This course consists of a study of the typical form of development and of its principal modifications in every class in the animal kingdom.

Two lectures and two demonstrations a week throughout the session. Professor Simpson.

Students desiring to continue the study of zoology during the Fourth Year may take either of the above courses.

HONOUR COURSES.

**Third Year.**

Students proceeding to honours in biology shall take, during the Third Year, in addition to course 2, a series of special readings under the supervision of the professor, with weekly colloquia.

One lecture and one demonstration per week.

During the Fourth Year students proceeding to honours shall take courses 3A and 3B. For students proceeding to the degrees of B.A. and M.D. in eight years, the anatomy of First Year Medicine may be substituted for 3A.

A special fee of $2.50 is charged against the caution money of each student attending the zoological laboratory, in order to cover the cost of instruments and laboratory note-book, which are supplied to him and become his property. A student attending the laboratory for a second time is not called on to pay this fee.

# THE SCHOOL OF COMMERCE.

The University offers a systematic course of study extending over two years, and intended as a preparation for entrance into business life. The course is not merely designed to impart instruction of a purely technical character. It is believed that a sound training in the essential branches of a liberal education affords the best equipment for the conduct of practical affairs. The object of the course is, therefore, rather to develop capacity than to impart special information. While adhering, however, to this general plan, the work of the commercial department is differentiated from that of the curriculum in Arts. Special stress is laid upon those subjects a knowledge of which is a necessity for business men, and the character of the instruction and the class methods adopted are specially suited for the end in view. The greatest emphasis is laid upon teaching the student to speak and write with fluency and accuracy, and to be able to apply a ready intelligence to practical business problems. The course is open to both men and women. On the successful completion of the course, a Diploma is awarded.

It is entirely within the aim of the University, in establishing this department, that the students therein should seek practical employment during the vacation period. Such employment, if of a suitable character, will form a useful complement to the work done in the University. It is confidently expected that the course will be viewed with such favor by the business community as to render the students particularly eligible applicants for positions in business houses.

## ADMISSION.

(For entrance requirements, see page 16).

## COURSE FOR THE DIPLOMA.

### First Year.

*Obligatory Subjects.*

1. English.
2. History of Government (special reference to Canada).
3. Mathematics (including Commercial Arithmetic).
4. Political Economy (evening class).
5. Accountancy (evening class).

*Optional Subjects.*

1. French (First Year Arts).
2. German (First Year Arts).
3. Chemistry (Second Year Arts) and Lab.
4. Physics (First Year Arts) and Lab.

At least one optional subject must be taken.

In order to meet the special requirements of the individual student, liberty is given to substitute any other subject of the Arts curriculum for one of the optional subjects mentioned above, provided that there is no conflict of lecture hours, and that permission has been obtained from the Dean of the Faculty. This applies to the second year likewise.

## Second Year.

*Obligatory Subjects.*

1. English.
2. Economics (for 1911-12).
3. Commercial Law (evening class).
4. Accountancy (evening class).

*Optional Subjects.*

1. French (Second Year Arts) (2 hours) and Commercial French (2 hours).
2. German (Second Year Arts).
3. Mathematics.
4. Chemistry.
5. Physics.

Two optional subjects must be taken. (See the corresponding paragraph of the first year.)

ENGLISH.—The work done in this subject will be of an essentially practical character. The students will be given a constant drill in essay writing, the making of abstracts, *précis* and reports, and in such exercises as will train them to a ready use of English. Letter writing and business correspondence will be made important features of the work. A systematic training will be offered in reading and public speaking and in the oral presentation of reports. In addition to this a certain amount of formal instruction will be given in the elements of English Literature.

HISTORY. — The work here will consist of a survey of general European history, to serve as a background for an understanding of the history of common and economic history. See course 1 under the History Department.

COMMERCIAL LAW.—By special arrangement with the Dean of the Faculty of Law, students will have the opportunity of studying, in this connection, an outline of the operation of Canadian government, federal, provincial and municipal. They will also have their attention directed to questions of everyday law, especially such as are likely to be met with in business practice.

FRENCH.—The course in French aims especially at imparting facility in the spoken and written language. During the Second Year, two hours will be devoted to the teaching of Commercial French, and the forms to be used in correspondence and accounts.

MATHEMATICS.—The course in mathematics will consist of commercial arithmetic and commercial algebra and the ordinary algebra of the first year, the arithmetic and algebra being taught with special reference to their practical application.

SCIENCE. — The physics (optional) and the chemistry (optional) will be presented in such a way that the students may not merely profit by the mental training afforded by the study of natural science, but may secure a general acquaintance with the scientific principles underlying modern industrial progress.

ECONOMICS.—The course is the ordinary course of the second year.

ACCOUNTANCY. — In the second year formal instruction will be given in the principles and practice of accounting. The object will be to provide students with a sound knowledge of the science of accounting rather than to train them in the craft of keeping books.

**FEES.**

| | |
|---|---|
| For students taking the full course, per session .. | $50.00 |
| For students taking the evening classes only:— | |
| Political Economy ..... | $ 5.00 |
| Accountancy ..... | 10.00 |
| Commercial Law ..... | 10.00 |
| All Evening Classes ..... | 20.00 |

BULLETIN

OF

# McGILL UNIVERSITY

MONTREAL.

---

## ANNOUNCEMENT

OF

## THE FACULTY OF APPLIED SCIENCE

---

FOR SESSION 1911-1912

---

MONTREAL:

PRINTED FOR THE UNIVERSITY BY THE GAZETTE PRINTING CO., LIMITED

1911

# INDEX


| | Page. |
|---|---|
| Academic Year | 5 |
| Accounting | 109 |
| Administrative Officers | 4 |
| **Admission** | 7 |
| Of Students of other Universities | 21 |
| Advanced Standing | 21 |
| Age for Admission | 23 |
| Algebra for Matriculation | 14 |
| Course in | 86 |
| Analytical Geometry | 66, 87 |
| Applied Mechanics, Courses in | 74 |
| Architecture:— | |
| Course in | 39 |
| Subject of | 64 |
| Assaying | 96 |
| Laboratories | 96, 126 |
| Astronomical Observatory | 124 |
| Astronomy | 106 |
| Attendance, Rules regarding | 25 |
| B. A. and B. Sc. | 34 |
| B. Arch. Degree | 34 |
| B. Sc. Degree | 34 |
| Board and Residence | 26 |
| Botany for Matriculation | 20 |
| Bridge Design | 76 |
| Building Construction | 67 |
| Calculus | 87 |
| Calendar of Events | 5 |
| Canadian Society of Civil Engineers | 113 |
| Canadian Mining Institute | 113 |
| Carpenter Shop Instruction | 88 |
| Caution Money | 32 |
| Cement Laboratory | 121 |
| Certificates Accepted for Matriculation | 9 |
| Chemical Engineering, Outline of Course in | 44 |
| Chemistry, Course in | 42 |
| For Matriculation | 20 |
| Subject of | 71 |
| Laboratories | 121 |
| Civil Engineers, Canadian Society of | 113 |
| Civil Engineering:— | |
| Course in | 46 |
| Subject of | 74 |
| Classification of Students | 23 |
| Committees of the Faculty | 4 |
| Composition, English | 82 |

| | PAGE. |
|---|---|
| Conditioned Undergraduates | 23 |
| Courses of Instruction | 36 |
| Courses of Lectures | 64 |
| Crystallography | 85 |
| Dates for Session | 5 |
| Degrees | 34 |
| Descriptive Geometry | 79 |
| Designing | 64, 93 |
| Double Course in Arts and Applied Science | 34 |
| Drawing | 69, 79, 87 |
| Economics | 85, 109 |
| Electrical Engineering:— | |
| Course in | 48 |
| Laboratories | 81, 122 |
| Subject of | 80 |
| Electric Lighting | 80 |
| Electricity | 104 |
| Electric Railways | 111 |
| Electric Traction | 80 |
| Electro-Chemistry | 72 |
| Electro-Metallurgy | 99 |
| Engineering Economics | 85 |
| Engineering Law | 85 |
| Engineering, Courses in | 36 |
| Engineering Societies | 113 |
| English | 82, 108, 110 |
| For Matriculation | 11 |
| Entrance Examination | 7 |
| Equivalent Standing for Students from other Universities | 21 |
| Examinations:— | |
| For Entrance | 7 |
| For Standing | 34 |
| Exemptions from Matriculation Examination | 9 |
| Exhibitions | 28 |
| Expenses of Board and Residence | 26 |
| Experimental Engineering | 94 |
| Experimental Physics | 104 |
| Faculty Committees | 4 |
| Fees | 32 |
| For Matriculation | 10 |
| First Year Course | 37 |
| Foundations and Masonry | 75 |
| Foundry work, Instruction in | 92 |
| Freehand Drawing | 79 |
| Freight Service | 108 |
| French for Matriculation | 13 |
| Course in, for Students of Architecture | 68 |
| Geodesy | 105 |
| Geodetic Laboratory | 107, 124 |
| Geography for Matriculation | 11 |
| Geology | 83 |
| Geometry | 66, 86 |
| Descriptive | 79 |
| For Matriculation | 14, 17 |

| | PAGE. |
|---|---|
| German for Matriculation | 13 |
| Graphical Statics | 68, 74 |
| Greek for Matriculation | 12 |
| Heating and Ventilation | 94 |
| History for Matriculation | 11 |
| Honours | 31 |
| Hydraulics | 77 |
| Laboratory | 78, 124 |
| Hygiene | 67 |
| Inorganic Chemistry | 71 |
| Instruction, Officers of | 1 |
| Interlocking | 110 |
| Laboratories | 121 |
| Latin for Matriculation | 12 |
| Law | 85 |
| Lettering | 79 |
| Locomotive Engineering | 94 |
| Lodgings | 26 |
| Machine Design | 90, 93 |
| Machine Shop, Instruction in | 92 |
| Magnetism | 104 |
| Mapping | 106, 109 |
| Marine Engineering | 94 |
| Materials of Construction | 74 |
| Mathematics | 86 |
| For Matriculation | 14 |
| **Matriculation Examination** | 7 |
| Certificates accepted for | 9 |
| Details of work in each Subject | 11 |
| Exemptions from | 9 |
| Fees for | 10 |
| Subjects of | 10 |
| Time Table (September) | 21 |
| McGill Union, The | 26 |
| Mechanical Drawing | 87, 89 |
| Mechanical Engineering:— | |
| Course in | 50 |
| Laboratory of | 91, 125 |
| Subject of | 87 |
| Mechanics | 74, 86 |
| Mechanics of Machines | 89, 93 |
| Medals | 31 |
| Metallurgical Laboratory | 98, 126 |
| Metallurgy:— | |
| Course in | 54 |
| Laboratories | 98, 126 |
| Subject of | 96 |
| Metallurgical Engineering, Course in | 52 |
| Military Courses | 36 |
| Mineral Analysis | 72 |
| Mineralogy | 83 |

| | PAGE. |
|---|---|
| Mining Engineering:— | |
| Course in | 56 |
| Laboratories | 102, 127 |
| Subject of | 100 |
| Mining Institute, The Canadian | 113 |
| Municipal Engineering | 78 |
| Observatory, The | 124 |
| Officers of Administration | 4 |
| Operation of Railways | 110 |
| Ore Deposits | 84 |
| Ore Dressing | 100 |
| Ore Dressing Laboratory | 100 127 |
| Organic Chemistry | 71 |
| Organization of Railways | 109 |
| Oscillograph Laboratory | 124 |
| Pass Standard for Matriculation | 8 |
| Patternmaking | 92 |
| Passenger Service | 110 |
| Petrography | 83 |
| Petrographical Laboratory | 129 |
| Physical Chemistry | 72 |
| Physical Examination | 22 |
| Physical Geography | 84, 111 |
| For Matriculation | 20 |
| Physical Laboratories | 104, 129 |
| Physics | 104 |
| For Matriculation | 20 |
| Prerequisite Subjects | 114 |
| Prizes | 28 |
| Qualitative Analysis | 71 |
| Quantitative Analysis | 72 |
| Railway Engineering | 108, 111 |
| Railway Law | 111 |
| Railway Operation | 110 |
| Railway Organization and Accounting | 109 |
| Railway Rates | 27 |
| Railways:— | |
| Course in | 58 |
| Subjects of Course in | 108 |
| Registration | 24 |
| Reinforced Concrete | 76 |
| Requirements for Entrance | 10 |
| Residence and Board | 26 |
| Ross (P.S.) Exhibition | 28 |
| Scholarships | 28 |
| Second Year Course | 38 |
| Session, Duration of | 5 |
| Shopwork | 88 |
| Shorthand | 112 |
| Signals | 110 |
| Smith Shop work | 88 |
| Standardizing Laboratory | 122 |

| | PAGE. |
|---|---|
| Standing Committees | 4 |
| Strength of Materials | 75 |
| Strength of Materials Laboratories | 75, 130 |
| Structural Engineering | 68, 76 |
| Students, Classification of | 23 |
| Of other Universities admitted | 21 |
| Subjects for Matriculation | 10 |
| Subjects of Instruction | 64 |
| Summer School in Metallurgy | 97 |
| In Mining | 103 |
| In Surveying | 106 |
| Summer Essays and Reading | 61 |
| Summer Work | 60 |
| Supplemental Examinations | 35 |
| Surveying | 105 |
| Telegraphy | 112 |
| Theory of Structures | 76 |
| Thermodynamics | 91 |
| Laboratory | 125 |
| Time Table of Matriculation Examination | 21 |
| Trigonometry | 67, 86 |
| For Matriculation | 19 |
| Undergraduates, Definition of | 23 |
| Union, The McGill | 26 |
| Ventilation | 94 |
| Water Supply | 78 |
| Workshops, Instruction in | 88 |
| Year Promotion | 34 |

# Officers of Instruction.

## FACULTY OF APPLIED SCIENCE.

THE PRINCIPAL.

FRANK D. ADAMS, Ph.D. (Heidelberg), D.Sc., F.G.S.A., F.R.S.
*Dean of the Faculty and Logan Professor of Geology and Palæontology.*
243 Mountain Street.

C. H. McLEOD, Ma.E., F.R.S.C.
*Vice-Dean of the Faculty, Professor of Surveying and Geodesy, and Lecturer on Descriptive Geometry, Supt. of Meteorological Observatory.* Observatory, McGill College.

J. BONSALL PORTER, Ph.D. (Columbia), D.Sc., hon., (Univ. Cape of Good Hope), M. Inst. C. E., F.G.S.A.
*Macdonald Professor of Mining Engineering.* 130 McTavish St.

J. WALLACE WALKER, Ph.D. (Leipsic), F.R.S.C.
*Macdonald Professor of Chemistry.*
768 St. Catherine Road, Outremont.

R. J. DURLEY, Ma.E., M. Inst. C.E., M. Am. Soc. M.E.
*Thomas Workman Professor of Mechanical Engineering and Lecturer on Thermodynamics.* 20 Summerhill Avenue.

ALFRED STANSFIELD, D.Sc. (London), A.R.S.M.
*Professor of Metallurgy.* 87 Durocher St.

HOWARD T. BARNES, D.Sc., F.R. S.
*Macdonald Professor of Physics and Director of the Physics Building.* 239 Pine Ave., W.

D. A. MURRAY, Ph.D. (Johns Hopkins)
*Professor of Applied Mathematics.* 297 University St.

H. M. MACKAY, B.A., B.A.Sc., M. Am. Soc. C.E.
*Professor of Civil Engineering.* 15 Lorne Ave.

H. O. KEAY, B.Sc. (Mass. Inst. of Tech.)
*Professor of Transportation.* 210 Milton St.

V. I. SMART, B.A. (Queen's).
*Professor of Railway Engineering* 34 Lincoln Ave.

LOUIS A. HERDT, E.E. (Elec. Inst. Montefiore, Belgium), D.Sc., M.A.I.E.E.
*Macdonald Professor of Electrical Engineering.* 82 Durocher St.

HAROLD A. WILSON, D.Sc., F.R.S.
*Macdonald Professor of Physics.*
The Travancore Apartments, Cedar Ave.

E. BROWN, M.Sc., M. Eng.
*Professor of Applied Mechanics and Hydraulics.* 152 St. Famille St.

THOMAS W. LUDLOW, B.Sc., M.A. (Columbia), Ass. Soc. of Beaux-Arts Architects.
*Assistant Professor of Architecture.* 27 Pine Avenue Apartments.

*(The above Members of the Staff constitute the Faculty of Applied Science).*

## Other Officers of Instruction.

Percy E. Nobbs, M.A. (Edin.), F.R.I.B.A., A.R.C.A., A.R.A.I.C.
*Professor of Architecture and Lecturer in Design.*
117 University St.

Henry F. Armstrong.
*Associate Professor of Freehand Drawing and Descriptive Geometry.* "Drayton House," Westmount Ave.

Nevil Norton Evans, M.A.Sc.
*Associate Professor of Chemistry.* 157 St. Famille Street.

Douglas McIntosh, A.M., (Cornell), D.Sc.
*Associate Professor of Chemistry.* McGill College.

A. S. Eve, M.A. (Cantab.), D.Sc.
*Associate Professor of Mathematics.*
860 St. Catherine Road, Côte des Neiges

John W. Bell, M.Sc.
*Assistant Professor of Mining Engineering.*
1032 Dorchester Street West.

C. M. McKergow, M.Sc.
*Assistant Professor of Mechanical Engineering.* McGill College.

J. Buicke Harvey, M.Sc
*Assistant Professor of Surveying and Geodesy, and Lecturer in Descriptive Geometry.* McGill College.

T. Ridler Davies, B.A. (Cantab.).
*Assistant Professor of Mathematics.* 69 University St.

Clarence V. Christie, B.Sc.
*Assistant Professor of Electrical Engineering.*
455 Grosvenor Ave., Westmount.

J. Austen Bancroft, M.A., Ph.D.
*Assistant Professor of Geology.* McGill College.

A. R. Roberts, M.Sc.
*Assistant Professor of Mechanical Engineering.*

Alexander M. Gray, B.Sc.
*Assistant Professor of Electrical Engineering.*

Cyril Batho, B Sc. (Manchester), B. Eng. and M.Sc. (Liverpool).
*Assistant Professor of Mechanics and Applied Mathematics.*
McGill College.

Richard P. D. Graham, B.A.
*Assistant Professor of Mineralogy.* McGill College.

H. M. Lamb, B.Sc.
*Assistant Professor of Civil Engineering.*

F. M. G. Johnson, M.Sc., Ph.D. (Breslau), F.I.C.
*Assistant Professor of Organic and Analytical Chemistry.*
286 Peel St.

John Blizard, B.Sc.
*Lecturer in Mechanical Engineering.* McGill College.

Herbert Martin.
*Lecturer on Freight Service.* Fairmount Court, 2106 Park Ave.

Marcel Beullac, Bachelier ès Science (France), B.Sc., A.M. Can. Soc. C.E.
*Special Lecturer on Structural Engineering.* 35 Mayor Street

A. A. Goodchild.
*Lecturer in Accounting and Statistics (Department of Railways).* 746 Park Avenue.

GEO. C. WELLS.
*Lecturer on Passenger Service.*
339 Côte St. Antoine Road, Westmount.

PHILIP J. TURNER, F.R.I.B.A.
*Lecturer in Building Construction, Specifications and Professional Practice.* 121 Board of Trade Building.

F. H. DAY, M.Sc.
*Lecturer in Physics.* 65 Shuter St.

N. R. GILLIS, M.Sc.
*Lecturer in Physics* McGill College.

F. BAYLIS BROWN, M.Sc.
*Lecturer in Engineering Economics.*
312 Prince Albert Ave., Westmount.

JOHN STANSFIELD, B.A., (Cambridge), F.G.S.
*Lecturer in Geology.*

G. L. GUILLET, M.Sc.
*Lecturer in Mechanical Engineering.*

ALFRED E. BARLOW, D.Sc.
*Sessional Lecturer in Geology.*

R. D. FULLERTON,
*Lecturer in Mathematics.*

W. S. LEA, B.Sc., A.M. Can. Soc. C.E.
*Lecturer in Civil and Municipal Engineering.*
32 McGill College Ave.

C. A. MILBURN,
*Lecturer in Mathematics.*

R. S. L. WILSON,
*Lecturer in Mathematics and Demonstrator in Civil Engineering.*

S. W. WERNER.
*Lecturer in Metallurgy.*

E. GODFREY BURR, B.Sc.
*Lecturer in Electrical Engineering.* 104 Union Ave.

HENRI HÉBERT.
*Instructor in Modelling.* 34 Labelle St.

J. B. MABON, B.A
*Lecturer in Mathematics and Assistant Demonstrator in Physics.*

---

*Demonstrator in Chemistry.* McGill College.

L. V. KING, B.A. (Cantab.)
*Sessional Lecturer in Physics.*

---

*Demonstrator in Civil Engineering.*

V. K. KRIEBLE, M.Sc.
*Demonstrator in Chemistry.* McGill College.

H. E. REILLEY, B.A.
*Assistant Demonstrator in Physics.* McGill College.

NATHANIEL ERNEST WHEELER, B.Sc.
*Demonstrator in Physics.* 65 Shuter St.

H. W. MATHESON, B.Sc.
*Demonstrator in Chemistry.* McGill College.

J. H. TRIMINGHAM, B.Sc.
*Demonstrator in Electrical Engineering.*

J. NICOLLS, B.Sc.
*Demonstrator in Chemistry.*

*Demonstrator in Mining Engineering.* McGill College.

*Demonstrator in Mechanical Engineering.*
A. G. L. MCNAUGHTON, B.Sc.
*Demonstrator in Electrical Engineering.*
J. C. POMEROY,
*Demonstrator in Physics.*
J. D. GALLOWAY, B.Sc.
*Dawson Fellow in Mining.* McGill College.
J. W. HAYWARD.
*Assistant Demonstrator in Physics.*
C. G. PORTER, B.Sc.
*Research Fellow in Metallurgy.*
G. E. MURRAY, B.Sc.
*Douglas Research Fellow in Mining.*
J. B. DE HART, B.Sc.
*Douglas Research Fellow in Mining.*
P. F. JOHNSON.
*Draughtsman in Mechanical Engineering.*
A. W. YOUNG.
*Instructor in Stenography.* McGill College.
H. F. MILLER.
*Instructor in Telegraphy.*
346 Marcil Ave., Westmount Plateau, Notre Dame de Grace.

With the foregoing are associated.

F. P. WALTON, B.A., LL.B., LL.D.
*Dean of Faculty of Law, Lecturer in Engineering Law.*
S. B. LEACOCK, Ph. D.
*Professor of Economics.*
J. C. HEMMEON, Ph.D.,
*Assistant Professor of Economics.*
G. W. LATHAM, B.A.
*Lecturer in English Language and Literature* 1359 St. Urbain St.

## STANDING COMMITTEES OF THE FACULTY

ON ADMISSION OF STUDENTS FROM OTHER UNIVERSITIES.—The Dean, Professor Durley and Professor Murray.

ON REGISTRATION, STANDING AND PROMOTION.—Professors McLeod, Porter, Murray and Keay.

ON EXAMINATIONS AND TIME TABLE.—Professors Porter, McLeod, Murray and MacKay.

## UNIVERSITY OFFICERS OF ADMINISTRATION.

W. Peterson, M.A., LL.D., C.M.G., Principal.
Frank D. Adams, Ph.D., D.Sc., F.R.S., Dean.
C. H. McLeod, Ma.E., F.R.S.C., Vice-Dean.
W. Vaughan, Secretary and Bursar.
J. A. Nicholson, M.A., Registrar.

# CALENDAR FOR 1911-1912.

## FACULTY OF APPLIED SCIENCE.

| | |
|---|---|
| 1911 Saturday, May 20th | Last day for receiving applications for the Matriculation Examination at outside centres in June. |
| Monday, May 29th. | Last day for receiving applications for the June Matriculation Examination in Montreal. |
| Monday, June 12th. | Matriculation Examinations begin. |
| Wednesday, August 30th. | Supplemental Examinations begin for students attending the Survey School. |
| Monday, September 4th. | Summer School in Surveying and Geodesy opens. |
| Thursday, September 14th. | Last day for receiving applications for the September Matriculation Examination. |
| Thursday, September 21st. | Matriculation Examination begins (held only at the University and Affiliated Colleges). |
| Wednesday, September 27th. | Supplemental Examinations begin for students in Applied Science who are not attending the Survey School. |
| September 25th to 28th. | Registration of students at the Registrar's Office. |
| Friday, September 29th. | Registration of new students in the Molson Hall. |
| Saturday, September 30th. | Registration of students previously in attendance in the Engineering Building. |
| Monday, October 2nd. | Lectures begin in all Faculties. |
| Friday, October 6th. | Founder's Birthday. University lecture. |
| Thursday, December 21st. | Christmas vacation begins. |

| | |
|---|---|
| 1912.<br>Thursday,<br>January 4th. | Work resumed in all Faculties. |
| Saturday,<br>January 13th. | Lectures for first term in Applied Science end. |
| Tuesday,<br>January 16th. | First term examinations in Applied Science begin. |
| Thursday,<br>January 18th. | Second term opens in Applied Science. |
| Wednesday,<br>February 21st. | Ash Wednesday. No lectures. |
| Friday,<br>April 5th. | Good Friday. No lectures. |
| Saturday,<br>April 13th. | Last day of lectures in Applied Science. |
| Thursday,<br>April 18th. | Sessional Examinations begin in Applied Science. |
| Friday,<br>May 10th. | Convocation for conferring Degrees in Applied Science. |

# ENTRANCE REQUIREMENTS.

All matters regarding matriculation are under the control of a Matriculation Board, which is constituted as follows:

(a) The Heads of all Departments which may include matriculation subjects, *ex-officio*.

(b) The Deans of the several Faculties and the Registrar of the Faculty of Medicine.

(c) Such other members of the teaching staff (or others), as may be appointed annually by Corporation, the Faculty of Arts being given the power, in any emergency, to make an appointment, *pro tempore*.

## I. Regulations.

1. Matriculation examinations (for entrance into all Faculties) are held only in June and September—in June at McGill College and (on application) at local centres; in September, at McGill College and the McGill University College of British Coumbia, in Vancouver and Victoria.

ALL INQUIRIES RELATING TO THE EXAMINATIONS SHOULD BE ADDRESSED TO THE REGISTRAR OF THE UNIVERSITY.

For the convenience of candidates in Great Britain, who are not otherwise qualified for entrance, an examination will be held regularly in London, Eng., each year, commencing on or about the 12th of June. The examination will be held at the City of London School, Victoria Embankment, London, E. C., under the directorship of Dr. J. D. McClure. Full information regarding the exact date of the examination, fee, etc., may be obtained from the Honorary Representative of the University, W. A. Evans, Esq., M.A., Secretary Headmasters' Conference, 12 King's Bench Walk, Temple, London, E.C.

2. Every candidate for examination is required to fill up an application form and return the same with the necessary fee (for which see page 15) one month before the examination begins. Blank forms may be obtained from the Registrar.

*No applications for examination in June will be received after May 20th.*

3. In order to obtain an examination at a local centre, the applicant must, before May 1st, submit to the Registrar the name of some suitable person, preferably a university graduate, who is willing to act as deputy examiner, i.e., receive the questions, hold the examination and forward the answers to Montreal. The University will be responsible for no other local expenses than the payment of the deputy-examiners.

4. The matriculation examination may be taken in two parts, candidates being free to make such a division of the subjects as may best suit their convenience. Credit will be given for any subjects passed at the first attempt, but unless all the requirements are completed, or at least all but two subjects, at the second, the whole will have to be taken over again. For the purposes of this regulation the June and September examinations shall be counted as one.

5. Candidates for entrance to Arts, Applied Science, Law, Music, or Agriculture who fail in a small part only of the whole examination may, if their general standing is sufficiently high, be allowed to enter the First Year as conditioned undergraduates. Those who are conditioned in a language must attend a special tutorial class during their first session, for which a fee of $10 is exigible. Any student, so conditioned, who fails to attend this class with regularity, will not be allowed to present himself for examination. The standing of a conditioned undergraduate will not as a rule be granted to any who have not presented themselves for examination in September, nor to those who have not shown sufficient knowledge of the subject or subjects in which they failed to justify the examiners in making a favourable recommendation. Conditioned undergraduates can obtain full undergraduate standing by passing at a subsequent June or September matriculation examination in the subject or subjects in which they failed and will not be permitted to enter the Second Year of their course of study until they have satisfied all matriculation requirements. In order to be admitted to the Faculty of Medicine a candidate must pass in every subject required.

6. When two or more books or subjects are prescribed for one examination it is necessary to pass in each.

7. A candidate in order to pass must obtain at least 40 per cent. of the total number of marks allowed for each subject.

8. The following certificates and diplomas will, if submitted to the Registrar, be accepted *pro tanto* in lieu of the matriculation examination, *i.e.*, in so far as the subjects and

standard of the examination taken to obtain them are, to the satisfaction of the Matriculation Board, equivalent to those required for the matriculation examination of this University. Candidates offering certificates which are not a full equivalent will be required to pass the matriculation examination in such of the required subjects as are not covered thereby:—

**Province of Quebec.**

The University School Leaving certificate.
The Model School diploma, under certain conditions.

**Province of Ontario.**

Junior and Senior Teachers' certificates.
Junior and Senior Matriculation certificates.

**Province of New Brunswick.**

First Class, Superior and Grammar School licences.

**Province of Nova Scotia.**

The leaving certificates of Grades XI and XII.

**Province of Prince Edward Island.**

First Class Teachers' licences.
Second Year certificates of Prince of Wales College.

**Province of British Columbia.**

Intermediate and Senior Grade certificates.

**Alberta and Saskatchewan.**

The Departmental examination certificates for Standards VII and VIII.

**Newfoundland.**

Associate Grade certificates.

**Great Britain.**

The School and Matriculation certificates of the universities of Oxford, Cambridge and London, and the Leaving examination certificates of the Scotch Education Department.

Applications for exemption from the matriculation examination, based upon certificates of having passed examinations other than those above mentioned, will be considered as

occasion may require by the Matriculation Board. Every such application must be accompanied by certificates and full particulars, and should be addressed to the Registrar.

## II. Matriculation Examination Fees.

| | |
|---|---|
| For the first examination* ..... | $5.00 |
| (For examination at a local centre where not more than two candidates are writing the fee will be determined by the Registrar, provided however, that it shall in no case exceed $12 for each candidate.) | |
| For a subsequent examination in one or two subjects ..... | 2.00 |
| For a subsequent examination in three or more subjects ..... | 3.00 |
| For examination of certificates, in respect of which candidates are exempted from the whole of the matriculation examination ..... | 1.00 |

Matriculation examination fees must be sent to the University Registrar at the time of application for the examination. No application will be accepted unless accompanied by the regular fee.

Certificates will be issued to successful candidates without additional fee.

## III. Subjects of Examination.

### FACULTY OF APPLIED SCIENCE.

(*For all courses leading to the Degree of B.Sc. in the different branches of Engineering.*)

1. **English Composition.**
2. **English Literature.**
3. **History and Geography.**
4. One of the following:
   **French, German, Latin, Greek.**
5. **Algebra, Parts I and II.**
6. **Geometry, Parts I and II.**
7. **Trigonometry.**
8. One of the following:
   **Physiography, Botany, Chemistry, Physics, a Language** not already chosen.

---

* In the case of candidates who qualify on certificates, or by other examinations in all but three subjects, or less, the fee will be $3.00.

(*For the course leading to the Degree of B. Arch.*)

1. English Composition.
2. English Literature.
3. History.
4. French.
5. One of the following:
   Greek, Latin, German, Chemistry, Physics.
6. Algebra, Part I.
7. Geometry, Part I.
8. Freehand and Geometrical Drawing.

In the case of No. 8, applicants may send specimens of their work to the Head of the Department or make arrangements with him to undergo a test. No examinations taken elsewhere are accepted as equivalents for this subject.

## IV. Requirements in Each Subject.

### History and Geography.

Candidates will be required to show a somewhat intimate acquaintance with the history of England, from 1485 to the present time. While any text-book written for the upper forms of schools may be used in preparation for the examination, Gardiner's Outline of English History (Longmans) is recommended.

The geography required will be that relating to the history prescribed.

One examination paper of two hours.

### English.

*Composition.*

As in Sykes's Elementary Composition, with an essay on some subject connected with the works prescribed in literature. Frequent practice in composition is essential.

*Literature.*

1911 and 1912.—Any two of the following: Shakspere's Julius Cæsar; Nineteenth Century Prose (ed. Cunliffe), pp. 127 to the end, with notes (Copp, Clark Co.); Poems of the Romantic Revival (Copp, Clark Co.), pages 83 to the end, with notes; Tennyson's Select Poems, editor Alexander (Copp, Clark Co.).

Two examination papers of two hours each.

An alternative paper will be set on the work specified in English for the Junior matriculation examination of the Province of Ontario.

Spelling will be tested by the candidates' papers in English Composition and Literature. Examiners in other subjects will also take note of mis-spelled words and will report flagrant cases to the Board.

**Greek.**

For 1911 and 1912—

*Texts.*—Xenophon, Anabasis, Book 1, Chaps. 1 to 8.

*Grammar.*—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

*Translation at Sight* from Greek into English.

*Composition.*—Translation into Greek of detached English sentences and easy narrative based on the prescribed texts.

Two papers of two hours each will be set; one on composition and translation at sight, the other on prescribed texts and grammar.

Alternative questions will be set on the work prescribed in Greek for the Junior matriculation examination of the Province of Ontario, if this differs from that specified above.

At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

**Latin.**

For 1911 and 1912—

*Texts.*—Cæsar, De Bello Gallico, Book IV, Chap. 20 to the end, and Book V; Ovid, Stories from the Metamorphoses (as in Gleason's "A Term of Ovid," American Book Company), lines 1 to 670.

*Grammar.*—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

*Translation at Sight* from Latin into English.

*Composition.*—Translation into Latin of detached English sentences and easy narrative based on the prescribed texts.

Two papers of two hours each will be set; one on composition and translation at sight, the other on prescribed texts and grammar.

Note.—The Roman method of pronouncing Latin is recommended.

An alternative paper will be set on the Latin texts prescribed for the Junior matriculation examination of the Province of Ontario, if these differ from those specified above.

At the September examination other texts in Latin equivalent to those specified may be accepted, if application be made to the Registrar at least a month before the day of the examination.

## French.

*Grammar.*—A thorough knowledge of French accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

*Translation at Sight* into English of a French passage of moderate difficulty.

*Translation at Sight* into French of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of French Grammar. Candidates are required to pass in English-French translation as well as in the paper as a whole.

Books recommended:—Bertenshaw's French Grammar (Longmans), and Cameron's Elements of French Prose Composition (Holt & Co.).

One examination paper of two hours.

## German.

*Grammar.*—A thorough knowledge of German accidence and of the syntax of the topics treated in Lessons 46, 47, 57, 58, 59 and 60 of the Joynes-Meissner Grammar, and as presented in the Joynes-Meissner, Van der Smissen, or any other German Grammar of equally good standing.

*Translation at Sight* into English of a German passage of moderate difficulty.

*Translation into German* of detached English sentences and of an easy English passage. Material for such translation is selected with a view to exemplifying the points of grammar included within the above limits.

TEXTS.—(Translation and grammatical study):—

For 1911 and 1912.—Volkmann, Kleine Geschicten (Heath & Co.); Stille Wasser, ed. Bernhardt (Heath & Co.). It is recommended that candidates should read the prescribed texts in the above order, beginning in Volkmann's Kleine Geschicten with Himmelsschlüssel and Siebenmeilenstiefel.

The Ontario Junior matriculation requirements in German will be accepted in place of the texts specified above.

At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

One examination paper of two hours.

### Algebra, Part I.

Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities; as in Hall and Knight's Elementary Algebra to the end of surds (omitting portions marked with an asterisk), or as in similar text-books.

One examination paper of two hours.

### Algebra, Part II.

The three progressions, ratio, proportion, variation, permutations and combinations, binomial theorem, logarithms, theory of quadratic equations, as in the remainder of Hall and Knight's Elementary Algebra (omitting Chaps. 40 to 44 inclusive), or as in similar text books.

One examination paper of an hour and three-quarters.

### Geometry, Part I.

Euclid's Elements, Books I, II, III, with easy deductions; or an equivalent.*

An alternative paper will be set on the Ontario Junior matriculation requirements in this subject.

One examination paper of two hours.

In 1913 and thereafter the requirements for the examination in Geometry, Part I, shall be as follows:—

The paper shall contain questions on practical and on theoretical geometry. Every candidate shall be expected to answer questions in both branches of the subject.

The questions on practical geometry shall be set on the constructions contained in the annexed Schedule A, together with easy extensions of them. In cases where the validity of a construction is not

*The text-book at present used in McGill University, and also authorized for use in the schools of the Province of Quebec, is Hall and Stevens' Euclid (Macmillan & Co.). Teachers will find Godfrey and Siddons' Elementary Geometry and Hall and Stevens' School Geometry useful adjuncts as far as regards practical applications.

obvious, the reasoning by which it is justified may be required. Every candidate shall provide himself with a ruler graduated in inches and tenths of an inch, and in centimetres and millimetres, a set square, a protractor, compasses and a hard pencil. All figures should be drawn accurately. Questions may be set in which the use of the set square or of the protractor is forbidden.

The questions on theoretical geometry shall consist of theorems contained in the annexed Schedule B, together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition shall be accepted which appears to the examiners to form part of a systematic treatment of the subject; the order in which the theorems are stated in Schedule B is not imposed as the sequence of their treatment.

In the proof of theorems and deductions from them, the use of hypothetical constructions shall be permitted. Proofs which are only applicable to commensurable magnitudes shall be accepted.

### SCHEDULE A.

Bisection of angles and of straight lines.

Construction of perpendiculars to straight lines.

Construction of an angle equal to a given angle.

Construction of parallels to a given straight line.

Simple cases of the construction from sufficient data of triangles and quadrilaterals.

Division of straight lines into a given number of equal parts or into parts in any given proportions.

Construction of a triangle equal in area to a given polygon.

Construction of tangents to a circle and of common tangents to two circles.

Simple cases of the construction of circles from sufficient data.

Construction of a fourth proportional to three given straight lines and a mean proportional to two given straight lines.

Construction of regular figures of 3, 4, 6 or 8 sides in or about a given circle.

Construction of a square equal in area to a given polygon.

### SCHEDULE B.

If a straight line stands on another straight line, the sum of the two angles so formed is equal to two right angles; and the converse.

If two straight lines intersect, the vertically opposite angles are equal.

When a straight line cuts two other straight lines, if (i) a pair of alternate angles are equal, or (ii) a pair of corresponding angles are equal, or (iii) a pair of interior angles on the same side of the cutting line are together equal to two right angles, then the two straight lines are parallel; and the converse.

Straight lines which are parallel to the same straight line are parallel to one another.

The sum of the angles of a triangle is equal to two right angles.

If the sides of a convex polygon are produced in order, the sum of the angles so formed is equal to four right angles.

If two triangles have two sides of the one equal to two sides of the other, each to each, and also the angles contained by those sides equal, the triangles are congruent.

If two triangles have two angles of the one equal to two angles of the other, each to each, and also one side of the one equal to the corresponding side of the other, the triangles are congruent.

If two sides of a triangle are equal, the angles opposite to these sides are equal; and the converse.

If two triangles have the three sides of the one equal to the three sides of the other, each to each, the triangles are congruent.

If two right-angled triangles have their hypotenuses equal, and one side of the one equal to one side of the other, the triangles are congruent.

If two sides of a triangle are unequal, the greater side has the greater angle opposite to it: and the converse.

Of all the straight lines that can be drawn to a given straight line from a given point outside it, the perpendicular is the shortest.

The opposite sides and angles of a parallelogram are equal, each diagonal bisects the parallelogram, and the diagonals bisect one another.

If there are three or more parallel straight lines, and the intercepts made by them on any straight line that cuts them are equal, then the corresponding intercepts on any other straight line that cuts them are also equal.

Parallelograms on the same or equal bases and of the same altitude are equal in area.

Triangles on the same or equal bases and of the same altitude are equal in area.

Equal triangles on the same or equal bases are of the same altitude.

Illustrations and explanations of the geometrical theorems corresponding to the following algebraical identities:

$$\begin{aligned} k\,(a + b + c \ldots) &= ka + kb + kc + \ldots . \\ (a + b)^2 &= a^2 + 2ab + b^2 \quad \ldots . \\ (a - b)^2 &= a^2 - 2ab + b^2 \quad \ldots . \\ (a^2 - b^2) &= (a + b)\,(a - b). \end{aligned}$$

The square on a side of a triangle is greater than, equal to, or less than the sum of the squares on the other two sides, according as the angle contained by those sides is obtuse, right, or acute. The difference in the cases of inequality is twice the rectangle contained by one of the two sides and the projection on it of the other.

The locus of a point which is equidistant from two fixed points is the perpendicular bisector of the straight line joining the two fixed points.

The locus of a point which is equidistant from two intersecting straight lines consists of the pair of straight lines which bisect the angles between the two given lines.

A straight line, drawn from the centre of a circle to bisect a chord which is not a diameter, is at right angles to the chord; conversely, the perpendicular to a chord from the centre bisects the chord.

There is one circle, and one only, which passes through three given points not in a straight line.

In equal circles (or, in the same circle) (i) if two arcs subtend equal angles at the centres, they are equal; (ii) conversely, if two arcs are equal, they subtend equal angles at the centres.

In equal circles (or, in the same circle) (i) if two chords are equal, they cut off equal arcs; (ii) conversely, if two arcs are equal, the chords of the arcs are equal.

Equal chords of a circle are equidistant from the centre; and the converse.

The tangent at any point of a circle and the radius through the point are perpendicular to one another.

If two circles touch, the point of contact lies on the straight line through the centres.

The angle which an arc of a circle subtends at the centre is double that which it subtends at any point on the remaining part of the circumference.

Angles in the same segment of a circle are equal; and, if the line joining two points subtends equal angles at two other points on the same side of it, the four points lie on a circle.

The angle in a semicircle is a right angle; the angle in a segment greater than a semicircle is less than a right angle; and the angle in a segment less than a semicircle is greater than a right angle.

The opposite angles of any quadrilateral inscribed in a circle are supplementary; and the converse.

If a straight line touch a circle, and from the point of contact a chord be drawn, the angles which this chord makes with the tangent are equal to the angles in the alternate segments.

If two chords of a circle intersect either inside or outside the circle the rectangle contained by the parts of the one is equal to the rectangle contained by the parts of the other.

If a straight line is drawn parallel to one side of a triangle, the other two sides are divided proportionally; and the converse.

If two triangles are equiangular their corresponding sides are proportional; and the converse.

If two triangles have one angle of the one equal to one angle of the other and the sides about these equal angles proportional, the triangles are similar.

The internal bisector of an angle of a triangle divides the opposite side internally in the ratio of the sides containing the angle, and likewise the external bisector externally.

The ratio of the areas of similar triangles is equal to the ratio of the squares on corresponding sides.

TEXT-book recommended for the present:—Godfrey and Siddons' Elementary Geometry (Pitt Press, Cambridge), or Hall and Stevens' School Geometry.

**Geometry, Part II.**

Euclid's Elements Books IV. and VI., with definitions of Book V., and easy deductions; or an equivalent.*

* The text-book at present used in McGill University and also authorized for use in the schools of the Province of Quebec, is Hall and Stevens' Euclid (Macmillan & Co.). Teachers will find Godfrey and Siddons' Geometry and Hall & Stevens' School Geometry useful adjuncts as far as regards practical applications.

One examination paper of an hour and three-quarters.

In 1913, and thereafter the examination in Geometry, Part II, will be based on the following schedule:—

Constructions.

To draw the inscribed, escribed, and circumscribing circles of a triangle.

To construct triangles under given conditions.

To divide a given line externally and internally in medial section.

To construct an isosceles triangle, such that each of the base angles is twice the vertical angle.

To describe a regular pentagon.

To construct a polygon similar to a given polygon, and such that their areas are in a given ratio.

To construct a figure equal in area to a given figure A, and similar to another figure B.

Theorems.

If two sides of one triangle be equal respectively to two sides of another, that with the greater contained angle has the greater base; and conversely.

If a triangle is such that the square on one side is equal to the sum of the squares on the other two sides, the angle contained by these sides is a right angle.

The three medians of a triangle are concurrent.

Perpendiculars from the angles to the opposite sides of a triangle are concurrent.

The complements of parallelograms about the diagonal of any parallelogram are equal.

If the circumference of a circle be divided into $n$ equal arcs.

(1) The points of division are the vertices of a regular polygon of $n$ sides inscribed in the circle;

(2) If tangents be drawn to the circle at these points, these tangents are the sides of a regular polygon of $n$ sides circumscribed about the circle.

If $OA:OB = OC^2$, OC is a tangent to the circle through $\bar{A}\,B\,C$.

If two triangles have an angle in each equal, and the sides about two other angles proportional, the remaining angles are equal or supplemental.

The perpendicular from the right angle of a right-angled triangle on the hypotenuse divides the triangle into two triangles which are similar to the original triangle.

The sum of the rectangles contained by the opposite sides of a quadrilateral, about which a circle can be described, is equal to the rectangle contained by its diagonals.

The squares on two sides of a triangle are together equal to twice the square on half the third side and twice the square on the median to that side.

If from the vertical angle of a triangle a straight line be drawn perpendicular to the base the rectangle contained by the sides of the triangle is equal to the rectangle contained by the perpendicular and the diameter of the circle described about the triangle.

If the vertical angle of a triangle be bisected by a straight line which also cuts the base, the rectangle contained by the sides of the triangle is equal to the rectangle contained by the segments of the base, together with the square on the straight line which bisects the angle.

The areas of two similar polygons are as the squares on corresponding sides.

In a right angled triangle the rectilineal figure described on the hypotenuse is equal to the sum of the similar and similarly described figures on the other two sides.

If three lines be proportional, the first is to the third as the figure on the first is to a similar figure on the second..

If the straight lines joining a point to the vertices of a given polygon are divided (all externally or all internally) in the same ratio, the points of division are the vertices of a similar polygon.

Two similar polygons may be so placed that the lines adjoining corresponding points are concurrent.

Triangles of equal altitude are as their bases.

In equal circles, angles, whether at the centres or circumferences, are proportional to the arcs on which they stand.

If P is any point on the circumscribing circle of a triangle, ABC, and PL, PM, PN are perpendicular to BC, CA, AB, respectively, LNM is a straight line.

A point P moves so that the ratio of its distances from two fixed points, Q and R, is constant; prove that the locus of P is a circle.

Areas.

Area of a circle.
Area of a sector of a circle.
Area of a segment of a circle.

Use of Squared Paper.

Marking points.
Finding areas of rectilinear and curvilinear figures.
Examples of plotting loci: in particular, the ellipse, hyperbola, and parabola.
Examples of loci and envelopes.

Deductions and Applications.

Deductions from, and simple applications of the constructions and theorems given above.

Text-book:—Godfrey and Siddons' Elementary Geometry (Pitt Press, Cambridge), or Hall and Stevens' School Geometry.

An alternative paper will be set on the work prescribed for Senior, or Honour, Matriculation in the Province of Ontario.

**Trigonometry.**

Measurement of angles, trigonometrical ratios or functions of one angle, of two angles, and of a multiple angle; as in

Lock's Elementary Trigonometry, Chaps. I to XII., Hall and Knight's Trigonometry, Chaps. I to XII., inclusive, omitting Chap. V.; or as in similar text books.

One examination paper of an hour and a half.

### Physiography.

The elements of the science, as in Davis's Elementary Physical Geography, or any other text-book covering the same ground.

One examination paper of an hour and a half.

### Botany.

Text-book to be selected.

One examination paper of an hour and a half.

### Chemistry.

Elementary inorganic chemistry, comprising the preparation and properties of the chief non-metallic elements and their more important compounds, the laws of chemical action, combining weight, etc. The ground is simply and effectively covered by Remsen's "Elements of Chemistry," pp. 1 to 165 and 218 to 243. (Macmillan's Edition.)

One examination paper of an hour and a half.

### Physics.

Properties of matter; elementary mechanics of solids and fluids, including the laws of motion, simple machines, work, energy; fluid pressure and specific gravity; thermometry, the effects and modes of transmission of heat.

Text-books recommended—Gage's Introduction to Physical Science, 1902 edition (Ginn & Co.), Chaps. I. to IV., inclusive; or Elementary Physics and Chemistry, Stages II. and III., by Gregory & Simmons.

One examination paper of an hour and a half.

## V. Dates of the Examinations.

The examinations in 1911 will commence on Monday, June 12th, and on Thursday, September 21st. Special arrangements may be made for the examination of candidates who are prevented by severe illness or domestic affliction from presenting themselves on the dates fixed.

## MATRICULATION EXAMINATION TIME TABLE.

### SEPTEMBER, 1911.*

THURSDAY, SEPTEMBER 21ST.

| | |
|---|---|
| Morning | 9–11.—English Grammar. |
| | 11–1.—English Literature. |
| Afternoon | 2.30–4.30.—English Composition. |
| | 4.30–6.30.—History |

FRIDAY, SEPTEMBER 22ND.

| | |
|---|---|
| Morning | 9–11.—Latin Authors. |
| | 11–1.—Arithmetic. |
| Afternoon | 2.30–4.30.—Latin Composition and Sight. |

MONDAY, SEPTEMBER 25TH.

| | |
|---|---|
| Morning | 9–11.—French. |
| | 11–12.30.—Trigonometry. |
| Afternoon | 2.30–4.30.—German. |
| | 4.30–6.—Chemistry and Botany. |

TUESDAY, SEPTEMBER 26TH.

| | |
|---|---|
| Morning | 9–11.—Geometry, Part I. |
| | 11–12.30.—Physics and Physiography. |
| Afternoon | 2.30–4.15.—Algebra, Part II. |

WEDNESDAY, SEPTEMBER 27TH.

| | |
|---|---|
| Morning | 9–11.—Algebra, Part I. |
| | 11–1.—Greek Authors. |
| Afternoon | 2.30–4.15.—Geometry, Part II. |
| | 4.15–6.15—Greek Composition and Sight. |

### VI. Admission to Advanced Standing.

Any student of another university applying for exemption from any subject or subjects which he has already studied is required to submit with his application a complete statement

* Students attending a summer school in Applied Science will not be allowed to take examinations under this schedule. For such students special examinations will be arranged on application to the Registrar and on payment of a fee of $5.00.

of the course he has followed, together with a certificate of the standing gained therein.

The Faculty, if otherwise satisfied, will decide what examination, if any, or what conditions may be necessary before admitting the candidate.

Undergraduates in Arts of the Second and Third Years, or graduates in Arts of any university, entering the Faculty of Applied Science, may at the discretion of the Faculty, be exempted from such lectures as they have previously attended as students in Arts.

## VII. Physical Examination.

In order to promote as far as possible the physical welfare of the student body, every student, on entering the University will be required to pass a physical examination to be conducted by, or under the direction of, the Medical Director of Physical Education or by a recognized representative.

By such an examination physical defects and weaknesses, amenable to treatment, may be discovered. The student would then be expected to apply to his physician for such remedial measures as his case may require.

Students would also be advised as to the forms of exercise or athletic activities which would likely be beneficial or injurious.

# CLASSES OF STUDENTS.

There are four classes of students in the University:—

(1) Graduates—students who have previously obtained an ordinary degree at McGill, or elsewhere, and who are now pursuing courses for the Master's degree (in Arts or Applied Science), or for the degree of Ph.D.

(2) Undergraduates—students who have passed the matriculation examination and, in the case of second, third and fourth year students, all the examinations of their course in the years below that in which they are registered.

(3) Conditioned Undergraduates—those with defective entrance qualifications or who have failed in one or more of the subjects of their course in the year previous to that in which they are registered.

(4) Partial Students—comprising all those who, not belonging to one of the above classes, are taking a partial course of study in the University. Except as provided below, such students may (subject to the approval of the Head of the Department and the Dean or the Committee appointed for this purpose) attend any class without previous examination.

Except under special circumstances no student under the age of sixteen is admitted to the First Year courses in Arts, Applied Science or Medicine, or under the age of seventeen to the Second Year, and no student under the age of seventeen is admitted to the course in Law.

All students are required to attend lectures at the University in Montreal, at Macdonald College (for the courses in Agriculture), or at one of the affiliated colleges.

# REGISTRATION AND ATTENDANCE.

## 1. Registration.

1. All candidates entering the first year of the Faculty of Applied Science for the Session 1911-1912 are required to register at the office of the University Registrar between September 25th and September 28th, 1911, or in the William Molson Hall on September 29th. The act of registration consists in giving such information of a personal nature as may be necessary for the University records, of registering for the classes which are to be taken during the session and of subscribing to the following declaration in the matricula or register:—

"I hereby accept and submit myself to the statutes, rules, regulations and ordinances of McGill University, and of the Faculty or Faculties in which I am registered, and to any amendments thereto which may be made while I am a student of the University, and I promise to observe the same."

2. Students previously enrolled, and those entering the senior years from other universities, will register at the Registrar's office between September 25th and September 28th or in the Engineering Building on September 30th.

3. Students who for any reason have failed to register at the times specified above may be permitted to do so at the Registrar's Office within a limited time thereafter.

4. The names of those who have registered for the separate classes shall be sent by the Registrar to the Heads of Departments on registration day, and subsequently, as new names are received, and only those for whom cards have been received by an instructor shall be admitted to his class, except in the case of students whose standing cannot be determined at the time of registration. To these special tickets will be issued which will give them the right of admission to classes until such time as their status can be ascertained.

5. Students desiring to make a change in their choice of studies must make application to the Registrar to do so on a regular form. This application must be approved by the Dean of the Faculty, whereupon due notice will be sent by

the Registrar to all parties concerned. No change in registration will be allowed, except under special circumstances, after the fifteenth day of the session.

6. Persons who wish to pursue courses in the University without a view to qualifying for a degree shall be classified as partial students and shall not be admitted to any course until they have obtained the permission of the Head of the Department concerned. Their application must then be approved by the Dean of the Faculty or the committee on Registration, Standing and Promotion.

## 2. Attendance.

1. Students are required to attend at least seven-eighths of the total number of lectures in any one course. Those whose absences exceed one-eighth of the total number of lectures in a course shall not be permitted to come up for the examination in that course.

Excuses on the ground of illness or domestic affliction shall be dealt with only by the Deans of the respective Faculties.

2. A record shall be kept by each Professor or Lecturer, in which the presence or absence of students shall be carefully noted. This record shall be submitted to the Faculty when required.

3. Credit for attendance on any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. In the case last mentioned, the student may, at the discretion of the Professor, be required to leave the room. Persistence in any of the above offences against discipline shall, after admonition by the Professor, be reported to the Dean of the Faculty concerned. The Dean may, at his discretion, reprimand the student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend from classes.

4. Lectures will commence at five minutes after the hour, on the conclusion of the roll-call, and will end at five minutes before the hour. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they will, on reporting themselves at the close of the lecture, be marked "late." Two lates will be considered equivalent to one absence.

## BOARD AND RESIDENCE.

A list of suitable boarding and lodging houses, the sanitary conditions of which are required to be properly certified, is prepared about a fortnight before the opening of the Session each year, and may be obtained upon application to the Registrar of the University.

Excellent board is furnished in the McGill Union for twenty dollars per month. The dining room, which is a special feature of the Union, will accommodate over 120 students at a time. There is also a lunch counter where meals are served *à la carte*.

APPROXIMATE ESTIMATE OF STUDENTS' EXPENSES PER SESSION.

### FACULTY OF APPLIED SCIENCE.

| | Minimum. | Average. |
|---|---|---|
| Tuition Fees ..... | $200 | $200 |
| Board and Lodging ..... | 160 | 200 |
| Books and Instruments .... | 20 | 30 |
| | $380 | $430 |

Other necessary expenses during attendance at the University will vary from about $70 per session as a minimum to about $125 as a moderate estimate.

Students whose course in any year requires them to attend the University for an additional period of one month will have to spend from $25 to $40 extra for that particular year.

# RAILWAY RATES.

## (1). Rates for Summer Vacations.

After April 15th, and up to June 30th, single fare return tickets will be issued to students of McGill University, on presentation of standard vacation certificates signed by the Principal or Registrar of the University, between Montreal and any station on the Intercolonial Railway in Quebec, and to any point in the Maritime Provinces, which is reached by either the Intercolonial or the Canadian Pacific Railways. These tickets will be good for return up to October 1st.

## (2). Special Rates for Students from the West.

Between any station in Canada on the Canadian Pacific Railway and Montreal, where the one way regular first-class rate is $20.00, or more, one way continuous passage tickets will be issued at half the regular first-class one way fare, minimum rate to be charged $20.00. For example, if the first-class one way rate is $50.00, $25.00 will be charged, but if the one way rate is less than $40.00, $20.00 will be collected. In order to obtain this rate, students (intending students as well as those in attendance) will be required to present a special certificate signed by the Principal or Registrar of the University. The certificates referred to can be obtained at the Registrar's Office.

## SCHOLARSHIPS, EXHIBITIONS AND PRIZES IN APPLIED SCIENCE.

*I.—Awarded on Result of Special Examinations.*

1. Two prizes, each of $10.00, presented by J. M. McCarthy, Esq., B.A.Sc., to students entering the Third Year, for proficiency in Levelling and Transit Work.

2. Scholarships covering four years' tuition in the Faculty of Applied Science are also awarded annually by the Grand Trunk and Canadian Pacific Railway Companies. These are open for competition to apprentices and other employees of the Companies under twenty-one years of age, as well as to minor sons of employees, and the award is made on the result of the June Matriculation Examination for entrance to Applied Science. For full particulars as to number of scholarships offered, conditions, etc., application should be made, in the case of the Grand Trunk Railway, to Mr. R. S. Logan, Assistant to the President, G.T.R. Offices, Montreal; and, in the case of the Canadian Pacific Railway, to Mr. C. H. Buell, office of the Vice-President, C.P.R. Offices, Montreal.

3. The P. S. Ross Entrance Exhibition, value $100, awarded annually to the candidate from the Ottawa Valley for entrance to any Faculty, who obtains the highest percentage at the June matriculation examination.

*II.—Awarded on results of Sessional Examinations or for special theses.*

1. A British Association Exhibition of $50.00 and a prize of $25.00, at the end of the Third Year, to the students who obtain the highest and the second highest aggregate marks, respectively, in the sessional examinations in strength of materials and mechanics of the Third Year.

2. Three prizes of $25.00, $15.00 and $10.00, at the end of the Second Year, to the students obtaining the highest, and the second and third highest, aggregate marks, respectively, in the sessional examinations in analytic geometry, calculus and mechanics of the Second Year.

3. A Scott Exhibition of $50.00, founded by the Caledonian Society of Montreal, in commemoration of the Centenary of Sir Walter Scott, and two prizes of $25.00 and $15.00, at the

end of the First Year to the students obtaining the highest, and the second and third highest aggregate marks, respectively, in the sessional examinations in the mathematics, descriptive geometry and physics of the First Year.

4. Workshop Prize.—A prize of $20.00, presented by Mr. C. J. Fleet, B.A., B.C.L., for bench and lathe work in the wood-working department, open to students of not more than two terms' standing in workshop practice.

5. A prize of $50.00, presented by Mr. James Tighe, B.A.Sc., for research work in hydraulics.

6. An exhibition offered to graduates by Mr. A. E. Childs, M.Sc., for a special research on "The flow of gas through pipes under pressure."

7. The following prizes are offered for the best summer theses:—

To the students of the Civil Engineering Course, a prize of $25, presented by E. B. Greenshields, Esq., B.A.

To the students of the Electrical Engineering Course, a prize of $25.

To the students of the Mining Engineering Course, a prize of $25 presented by Geo. E. Drummond, Esq.

To the students of the Metallurgical Course, a prize of $25, presented by Milton L. Hersey, Esq., LL.D.

To the students of the Mechanical Engineering Course, a prize of $25, presented by the Crosby Steam Gauge and Valve Co.

Four prizes, each of the value of $25, are offered for competition to student members of the Canadian Society of Civil Engineers, for the best papers on subjects in any department of engineering. The summer theses prepared by students of this University are available for this competition.

Three prizes, each of the value of $25, and the President's gold medal are offered for competition to student members of the Canadian Mining Institute for the best papers on mining subjects.

8. The sum of $50.00 has been voted by the Undergraduates' Society of the Faculty of Applied Science, to be given as prizes for the best papers read before the Society during the session 1911-1912.

9. Prizes or Certificates of merit are given to such students as take the highest place in the Sessional and Degree examinations. Partial students are not eligible for prizes.

For other prizes given in connection with Medals in Applied Science, see under Medals and Prizes, page 31.

*III.—Awarded at the Discretion of the Faculty.*

1. THE HON. ROBERT JONES' SCHOLARSHIP, having a value of One Hundred and Twenty-five Dollars ($125.00) per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Applied Science."

Application for this scholarship should be made through the Dean of the Faculty of Applied Science. In awarding the scholarship the standing of the student in the matriculation examination will be considered, and the scholarship will not be continued if the standing of the student at any time during his course proves to be unsatisfactory.

2. Three research and teaching fellowships of the value of $500 each, have been established in the Mining Department—one endowed in memory of the late Sir William Dawson, and two supported by Dr. James Douglas. All three fellowships are awarded annually if suitable candidates offer.

3. Dr. James Douglas, a member of the Board of Governors, has provided for ten tutorial bursaries in the Faculty of Applied Science. In assigning these bursaries account will be taken of the circumstances of the applicants as well as of their academic standing.

These bursaries are worth $100.00 per annum, and carry the obligation of giving tutorial instruction equivalent to one evening a week, to the satisfaction of the Faculty Committee. Students in the third and fourth years of Applied Science only, are eligible.

4. A Fund has been established by the Class of 1899, to be known as "The Class of 1899 Fund," for the purpose of aiding, each year, one or more students who, upon the completion of their Second Year Work, require assistance to enable them to finish their course of study. The loans from this fund made to students will be repayable after graduation. Applications should be made through the Dean.

## MEDALS IN APPLIED SCIENCE.

1. The Governor-General's silver medal (the gift of His Excellency The Right Honourable Earl Grey) will be awarded for graduate research work.

2. A British Association medal and prize in books are open for competition to students of the graduating class in each of the ten courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examinations. The British Association Medals and Exhibition were founded by the British Association for the Advancement of Science, in commemoration of the meeting held in Montreal in the year 1884.

3. A gold medal and three prizes of $25, offered by the Canadian Mining Institute. For further particulars see page 29.

4. Honours.—On graduation, Honours will be awarded for advanced work in professional subjects.

5. Certificates may be given to students who have passed through any of the special courses attached to the curriculum.

For Prizes in Applied Science, see page 28.

## FEES IN APPLIED SCIENCE.

Sessional fee for the undergraduate course in Architecture .. .. .. .. .. .. .. .. .. .. .. .. .. .. $150.00
Sessional fee for all other undergraduate courses .. 200.00

(Students who were in attendance as undergraduates or conditioned undergraduates in this Faculty during the session 1909-1910, or previously, will be allowed to complete their several courses on payment of $100 for the undergraduate course in Architecture and $175 for any other undergraduate course).

Graduates of this Faculty taking an additional undergraduate course will pay one-half of the undergraduate fee.

Students taking the six year Double Course in Arts and Applied Science shall pay full fees in Arts for the first three years of their course and the following fees in Applied Science:—

Sessional fee for First and Second Years of double course (including Summer School) .. .. .. .. $50.00
*Sessional fee for Fourth, Fifth and Sixth Years of double course .. .. .. .. .. .. .. .. .. .. .. 200.00

The fees for partial students are:—$4.00 for library, $3.00 for athletics, and a fee at the rate of $7.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

In addition to the fees specified above, every student is required to pay a fee of $1.00 for the Undergraduates' Society in the Faculty of Applied Science, to be collected with the tuition fees at the office of the Bursar.

CAUTION MONEY.—Every student is required to deposit with the Bursar the sum of $10, as caution money, to cover damage done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

---

* (For students in attendance during the session 1909-1910, or previously, this fee will be $175.)

| | |
|---|---|
| Fee for the Degree of B.Sc., conferred in absentia (except when the candidate has been specially exempted by the Faculty) .. .. .. .. .. .. | $20.00 |

Fees for Summer classes (First Year).

| | |
|---|---|
| Mathematics. | |
| For one division of the subject .. .. .. .. .. | $8.00 |
| For each additional part .. .. .. .. .. .. .. | 4.00 |
| Physics.. .. .. .. .. .. .. .. .. .. .. .. .. .. | 8.00 |
| Descriptive Geometry .. .. .. .. .. .. .. .. .. | 25.00 |
| Chemistry, with laboratory work (Second Year) | 25.00 |

For regular supplemental examinations, the fee is $2.00 for each subject. It must be paid to the Bursar of the University not later that the day before the examination, and receipt for the same must be shown to the Professor in charge before the examination papers are distributed.

The fee for a special supplemental examination is $5.00.

# DEGREES AND EXAMINATIONS.

## DEGREES AND EXAMINATIONS.

### (1) *Degrees.*

The degrees conferred by the University upon such undergraduates of the Faculty as fulfil the conditions and pass the examinations hereinafter stated are, "Bachelor of Architecture (B.Arch.), and Bachelor of Science" (B.Sc.), mention being made in the diploma of the particular course of study pursued.

Students who take the Bachelor of Science degree in one of the courses provided by the Faculty may graduate in any of the remaining courses by attending one or more subsequent sessions.

Students who wish to obtain the degrees of B.A. and B.Sc. (Applied Science) in six years, will spend the first three years in Arts before attending any regular classes in Applied Science, except the summer classes referred to below. The student will then enter the Faculty of Applied Science and devote the rmaining three years entirely to the work of this Faculty. The special summer courses mentioned are necessary in order to overtake the work in descriptive geometry, drawing and shopwork, which form part of the regular course of the first year in Applied Science. This work must be taken in two periods of one month each (in the month of May), at the close of the regular work of the first and second years or of the second and third in the Faculty of Arts; and must not be taken during the regular session in any of the three years spent in that Faculty.

By a resolution of the Institution of Civil Engineers (England) the holders of the degree of B.Sc., in the courses of civil, electrical, mechanical, and mining engineering, who are desirous of becoming associate members of the Institution are exempted from the examination prescribed for admission.

### (2) *Examinations.*

1. Final examinations are held in all subjects. Class examinations, for which credit may be given in the sessional standing, are held from time to time, at the option of the professor.

2. Students who have failed in one or more subjects of the curriculum shall be required to make good their standing by passing:—

(1) The supplemental examinations,* *or*

(2) The final examinations in a subsequent session, *or*

(3) The examinations of the summer courses when such examinations are equivalent to the final examinations,† *or*

(4) Special examinations, which shall be given only under exceptional circumstances and by authority of the Faculty.

3. No undergraduate will be allowed to take the lectures in any subject until he has passed the examinations in the necessary pre-requisite subjects, for particulars regarding which see page 114.

---

*In 1912, and thereafter, there will be only one regular supplemental examination for students entering the second and third years. This will be held immediately before the opening of the summer schools in September. The supplemental examinations for students entering the fourth year (except those in the Civil Engineering Course) will be held shortly before the opening of the session in October. Special arrangements will be made for the examination of students in the Chemistry and Metallurgy courses who wish to take supplemental examinations before entering the second year. Civil Engineering students entering the fourth year must take their examinations during the regular period before the opening of the September summer schools.

† These examinations are open only to students who have attended the summer courses and who have paid regular fees therefor.

# COURSES OF INSTRUCTION.

The instruction in this Faculty is designed to afford a thorough training of a practical as well as a theoretical nature, in the following branches of applied science:—

I.—Architecture.
II.—Chemistry.
III.—Chemical Engineering.
IV.—Civil Engineering and Surveying.
V.—Electrical Engineering.
VI.—Mechanical Engineering.
VII.—Metallurgical Engineering.
VIII.—Metallurgy.
IX.—Mining Engineering.
X.—Railways.

The regular work of each session in Applied Science will end about the 1st of May, at the close of the sessional examinations. In 1912, and thereafter, the summer work will be taken during the month of September.

The Faculty advises students to attend the Military Courses now offered by the University, and has assigned marks to these subjects on the same basis as that adopted for the obligatory subjects of the course. The marks obtained in the examinations on the Military Course, like those in other optional subjects, will be taken into consideration in determining the standing of the student.

The curriculum, as laid down in the following pages, may be changed from time to time as deemed advisable by the Faculty. The work prescribed for the first two years is the same in all courses, except in the Practical Chemistry and Metallurgy Courses, and in that leading to the degree of Bachelor of Architecture. (Courses I, II and VIII).

The first two years of the engineering courses (III to VII and IX and X) are mainly devoted to mathematics, mechanics, physics, chemistry, drawing and shopwork, as it is deemed necessary that students in these courses should master the general principles underlying scientific work before commencing the subjects of the professional courses proper.

The subjects of instruction in the engineering courses in these years, for all courses except those above named, and the number of hours per week devoted to each, are as follows:—

FIRST YEAR.

| SUBJECT | Subject Number | Lectures per week. | | Laboratory etc. periods* per week. | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Algebra | 192 | 5 | 5 | .. | .. | 86 |
| Descriptive Geometry | 341 | .. | .. | 2 | 2 | 79 |
| English | 131 | 1 | 1 | .. | .. | 82 |
| Freehand Drawing | 342, 343 | .. | .. | 1 | 1 | 79 |
| Geometry | 191 | 3 | .. | .. | .. | 86 |
| Mech. Drawing | 211 | .. | .. | 1 | 1 | 87 |
| Mechanics | 194 | 2 | 2 | .. | .. | 86 |
| Physics | 311 | 2 | 2 | .. | .. | 104 |
| Physics Lab | 312 | .. | .. | 1 | 1 | 104 |
| Shopwork | 212, 213, 214 | .. | .. | 2 | 2 | 88 |
| Trigonometry | 193 | .. | 3 | .. | .. | 86 |

* A laboratory period is three hours.

*All students of the first year, except those in the course of Architecture, who at the close of the first term have failed in any four of the following five subjects, which form part of the work of the first term, viz., dynamics, geometry, algebra, physics, descriptive geometry, will be required to withdraw from the Faculty.*

*In the case of students in the course of Architecture the same rule applies, the five subjects, however, being descriptive geometry, mathematics, physics, history, and architectural drawing.*

SECOND YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods* per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Anal. Geometry | 197 | 3 | .. | .. | .. | 87 |
| Calculus | 198 | 3 | 3 | .. | .. | 87 |
| General Chemistry | 51 | 3 | 3 | .. | .. | 71 |
| General Chemistry Lab | 52 | .. | .. | 1 | 1 | 71 |
| Graphical Statics | 82 | .. | .. | .. | 1 | 74 |
| Mapping | 348 | .. | .. | 1 | 1 | 106 |
| Materials of Construction | 81 | 1 | 1 | .. | .. | 74 |
| Mechanical Drawing | 219 | .. | .. | 1 | 1 | 89 |
| Mechanics | 83 | .. | 3 | .. | .. | 74 |
| Mech. of Machines | 218 | 3 | 3 | .. | .. | 89 |
| Physics | 315 | 2 | 2 | .. | .. | 104 |
| Physics Lab | 316 | .. | .. | 1 | 1 | 104 |
| Shopwork | 220 | .. | .. | 1 | 1 | 89 |
| Surveying | 346 | 2 | 2 | .. | .. | 106 |
| Surveying Field Work | 347 | .. | .. | .. | .. | 106 |

*** A laboratory period is three hours.**

Note.—Surveying field work, 4 weeks, beginning September 4th, 1911. See page 106.

For other summer school work see third year tables.

---

**N.B.—No student will be permitted to enter the second term of the fourth year who has a condition in any subject.**

## I. Architecture.

For fuller information see the announcement of the Department of Architecture which will be sent to interested persons upon request to the Professor of Architecture.

The curriculum required for the degree of Bachelor of Architecture extends over four years, and besides work in the Department of Architecture proper, teaching is provided by the Faculties of Arts, Law and Medicine. The work in the three classes in design A. B and C, is independent of the work in the four years, *and good standing in design, class C, must be obtained prior to receiving the degree.*

While the design classes A, B and C are intended to run concurrently with the second, third and fourth year work respectively, a student in any year, if competent, may be admitted to the higher classes in this subject.

The object of the curriculum in the first year is to impart such general culture, scientific knowledge and skill of hand as will prepare the student to profit by the work of the succeeding years, in his more professional studies under the heads of:—

(*a*) Design.
(*b*) Aesthetic.
(*c*) Archæology.
(*d*) Science.
(*e*) Construction.
(*f*) Professional Practice.
(*g*) Drawing.

An essay on an historical or theoretical subject is required in each term from all students following the Historical or Theoretical Courses.

In all courses studio work goes hand in hand with oral teaching, with a view to the practical application of the theory, while at the same time affording opportunity for the acquisition of power in draughtsmanship and practice in design, *this latter being the chief aim of the course.*

The lectures in the third and fourth years are given as far as possible, in the morning, to enable partial students working in offices to avail themselves of the instruction. Such lectures will be found of use to those studying for the R.I.B.A. and the P.Q.A.A. examinations.

## FIRST YEAR.

| SUBJECT | Subject Number | Lectures per week | | Draughting Room and other periods* per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| French | Arts (30) | 4 | 4 | .. | .. | 68 |
| General History† | Arts (13) | 2 | 2 | .. | .. | 66 |
| Mathematics | Arts (18) | 4 | 4 | .. | .. | 66 |
| Physics | Arts (20) | 2 | 2 | .. | .. | 67 |
| Physics Laboratory | Arts (21) | .. | .. | 1 | 1 | 67 |
| English | 131 | 1 | 1 | .. | .. | 82 |
| Descriptive Geometry | 341 | 1 | 1 | 2 | 2 | 79 |
| Elements of Architecture | 4 | 1 | 1 | .. | .. | 64 |
| Architectural Drawing | 32 | .. | .. | 1 | 1 | 69 |
| Freehand Drawing | 36 | .. | .. | 1 | 1 | 69 |
| Modelling | 37 | .. | .. | 1 | 1 | 70 |
| Summer Work | 41 | .. | .. | .. | .. | 70 |

## SECOND YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Design, Grade A | 1 | .. | .. | 2 | 2 | 64 |
| Theory of Architecture | 5 | 1 | 1 | .. | .. | 64 |
| Building Construction | 24 | 1 | 1 | .. | .. | 67 |
| Building Details | 25 | .. | .. | 2 | 2 | 67 |
| General History† | Arts (12 or 13) | 2 | 2 | .. | .. | 65 |
| History of Ancient and Classical Architecture | 14 | 2 | 2 | .. | .. | 66 |
| Mathematics | Arts (19) | 3 | 3 | .. | .. | 67 |
| Surveying | 346 | 2 | 2 | .. | .. | 106 |
| Surveying Field Work | 347 | .. | .. | .. | .. | 106 |
| Mapping | 348 | .. | .. | 1 | 1 | 107 |
| Ornament and Decoration ‡ | 8 & 9 or 10 & 11 | 1 | 1 | 1 | 1 | 65 |
| Architectural Drawing | 33 | .. | .. | 1 | 1 | 69 |
| Modelling | 38 | .. | .. | 1 | 1 | 70 |
| Summer Work | 42 | .. | .. | .. | .. | 70 |

* Draughting Room Period is three hours.

† General History Courses, numbers 12 and 13, are given in alternate years.

‡ Ornament and Decoration Courses, numbers 8 and 9, and 10 and 11, are given in alternate years.

## THIRD YEAR.

| SUBJECT | Subject Number | Lectures per week | | Draughting Room and other periods* per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Design, Grade B | 2 | .. | .. | 4 | 4 | 64 |
| Theory of Design | 6 | 1 | 1 | .. | .. | 64 |
| Structural Engineering | 26 | 2 | 2 | .. | .. | 68 |
| Structural Detail | 27 | .. | . | 1 | 1 | 68 |
| History of Mediaeval or Renaissance Architecture † | 15 or 16 | 2 | 2 | .. | .. | 66 |
| Ornament and Decoration ‡ | 8 & 9 or 10 & 11 | 1 | 1 | 1 | 1 | 65 |
| Descriptive Geometry and Perspective | 351 | 1 | .. | 1 | .. | 79 |
| Hygiene | 22 | 2 | .. | .. | .. | 67 |
| Heating and Ventilation | 23 | .. | 1 | .. | 1 | 67 |
| Architectural Drawing | 34 | .. | .. | 1 | 1 | 69 |
| Modelling | 39 | .. | .. | 1 | 1 | 70 |
| Summer Work | 43 | .. | .. | .. | .. | 70 |

## FOURTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Design, Grade C | 3 | .. | .. | 6 | 8 | 64 |
| Theory of Planning | 7 | 1 | 1 | .. | .. | 65 |
| History of Mediaeval or Renaissance Architecture † | 15 or 16 | 2 | 2 | .. | .. | 66 |
| History of Modern Architecture | 17 | 1 | 1 | .. | .. | 66 |
| Graphical Statics | 28 | 1 | 1 | .. | .. | 68 |
| StructuralDesign | 29 | .. | .. | 2 | 2 | 68 |
| Engineering Law | 175 | 1 | 1 | .. | .. | 85 |
| Architectural Practice | 31 | 2 | 2 | .. | .. | 69 |
| Architectural Drawing | 35 | .. | .. | 1 | .. | 69 |
| Modelling | 40 | .. | .. | 1 | .. | 70 |

* A Draughting Room Period is three hours.

† The courses on Mediæval and Renaissance Architectural History, numbers 15 and 16, are given in alternate years.

‡ Ornament and Decoration Courses, numbers 8 and 9, and 10 and 11, are given in alternate years.

## II. Chemistry.

The course in Chemistry is arranged to give the student in the first two years a thorough knowledge of the fundamental principles of chemistry and physics, with sufficient mathematics to enable him to understand the theoretical parts of these subjects.

In the two subsequent years chemistry (analytical, organic, and physical), is taught both in its purely scientific aspects and in its relations to the various departments of commercial work. Special facilities are afforded for the prosecution of graduate research work in all the branches of chemistry.

### FIRST YEAR.

As in Engineering Courses. For details, see pages 37 and 38.

### SECOND YEAR.

| SUBJECT. | Subject Number | Lectures per week | | Laboratory, etc., periods* per week. | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Analytic Geometry..... | 197 | 3 | .. | .. | .. | 87 |
| Calculus..... | 198 | 3 | 3 | .. | .. | 87 |
| Chemistry Lab..... | 53 | .. | .. | 5 | .. | 71 |
| General Chemistry.... | 51 | 3 | 3 | .. | .. | 71 |
| Inorganic Qualitative Analysis..... | 54 | .. | 1 | .. | .. | 1 |
| Inorganic Qualitative Analysis Lab..... | 55 | .. | .. | .. | 5 | 71 |
| Mechanics. ..... | 83 | .. | 3 | .. | .. | 74 |
| Physics..... | 315 | 2 | 2 | .. | .. | 104 |
| Physics Lab..... | 316 | .. | .. | 1 | 1 | 4 |

*A laboratory period is three hours.

## THIRD YEAR

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods* per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Engineering Economics. | 171 | .. | 2 | .. | .. | 85 |
| Geology, General..... | 141 | 2 | 2 | ⅓ | ⅓ | 83 |
| Inorganic Quant. Analysis..... | 61 | 1 | .. | .. | .. | 72 |
| Inorganic Quant. Anal. Lab..... | 62 | .. | .. | 6 | 6 | 72 |
| Gen. Elementary Metallurgy..... | 261 | 2 | .. | .. | .. | 96 |
| Mineralogy..... | 142 | 2 | 2 | .. | .. | 83 |
| Mineralogy, Determinative..... | 143 | .. | .. | .. | 2 | 83 |
| Organic Chemistry .... | 56 | 3 | .. | .. | .. | 71 |
| Organic Chemistry Lab. | 57 | .. | .. | 2 | .. | 72 |
| Physical Chemistry.... | 58 | .. | 2 | .. | .. | 72 |

## FOURTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Applied Electro-Chemistry & Lab..... | 70 | 2 | .. | 2 | .. | 73 |
| Crystallography (alt)... | 151 | 2 | .. | 1 | .. | 85 |
| Engineering Law..... | 175 | 1 | 1 | .. | .. | 85 |
| Industrial Chemistry .. | 69 | 2 | 2 | .. | .. | 73 |
| Physical Chemistry & Lab..... | 67 | 2 | 2 | 2 | 1 | 72 |
| Fire Assay (alt.)..... | 263 | .. | .. | 2 | .. | 96 |
| Inorganic Quant. Analysis & Lab. (alt.)... | 68 | .. | 1 | 4 | 4 | 73 |
| Ore Deposits (alt) ..... | 148 | .. | 4 | .. | .. | 84 |
| Organic Chemistry (alt) | 66 | 2 | 2 | 6 | 5 | 72 |

*A laboratory period is three hours.

## III. Chemical Engineering.

The aim of this course is to prepare the student for the duties of managing engineer in a chemical manufactory. As such he must not only be conversant with the chemical processes involved, but he may also be required to design and oversee the construction of new buildings and to direct the installation and use of machinery. Accordingly the course of study combines a considerable amount of engineering with the maximum of chemical training which can be attained without overpressure.

Between the second and third years students taking this course must attend a summer session of four weeks in the chemical laboratories.

In the third year specialisation commences, the time being about equally divided between chemical and engineering studies, and in the vacation between the third and fourth years all students must give at least six weeks to work in some chemical industry or to equivalent laboratory work satisfactory to the Professor of Chemistry.

In the fourth year the engineering studies are completed and the chemical studies which predominate are arranged in several alternative courses to meet the requirements of the students who cannot possibly study more than a few of the very varied chemical industries. These alternative courses fall broadly under one or other of two headings:—(*a*) inorganic and electrochemical, (*b*) organic. Should a student desire to prepare for an industry which requires more engineering knowledge than is provided in the regular course he may substitute additional engineering subjects for some of the chemical work. Details will be arranged on application to the Faculty through the Professor of Chemistry.

While every effort will be made to supply detailed information as to methods and plant of many of the important industries, and to provide facilities for experimentally carrying out the processes involved, the main aim will be devoted to the study of the principles which underlie economical production.

## FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 37 and 38.

### THIRD YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods* per week | | For details see page |
|---|---|---|---|---|---|---|
| | | 1st Term | 2nd Term | 1st Term | 2nd Term | |
| Engineering Economics | 171 | .. | 2 | .. | .. | 85 |
| General Elem. Metall.. | 261 | 2 | .. | .. | .. | 96 |
| Geology General (alt) | 141 | 2 | 2 | ⅓ | ⅓ | 83 |
| Inorg. Quant. Anal.... | 61 | 1 | .. | .. | .. | 72 |
| Inorganic Quant. Analysis Lab..... | 62 | .. | .. | 3 | 2 | 72 |
| Mech. Eng. and Lab... | 226 and 228 | 2 | 2 | 1 | 1 | 90 |
| Mineral Anal. (alt).. | 65 | .. | .. | 2 | 3 | 72 |
| Mineralogy (alt.)... | 142 | 2 | 2 | .. | .. | 83 |
| Mineral. Deter. (alt.) | 143 | .. | .. | .. | 2 | 83 |
| Ore Dressing (opt.). | 292 | .. | 2 | .. | .. | 100 |
| Ore Dress. Lab. (opt.) | 293 | .. | .. | .. | 1 | 100 |
| Organic Chemistry.... | 56 | 3 | .. | .. | .. | 71 |
| Organic Chem. Lab... | 57 | .. | .. | 2 | .. | 72 |
| Physical Chemistry... | 58 | .. | 2 | .. | .. | 72 |
| Strength of Materials.. | 87 | 2 | 2 | .. | .. | 75 |
| Strength of Mats. Lab. | 88 | .. | .. | .. | 1 | 75 |
| Structural Engineering | 90 | .. | 1 | .. | 1 | 76 |
| Summer School, Inorg. Qual. Anal. and Lab. | 54 and 55 | .. | .. | .. | .. | 71 |

### FOURTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Elements of Elect Eng.. | 111 | 2 | 2 | .. | .. | 81 |
| Elect. Eng. Lab..... | 112 | .. | .. | 1 | 1 | 81 |
| Engineering Law..... | 175 | 1 | 1 | .. | .. | 85 |
| Hydraulics..... | 101 | 1 | .. | .. | .. | 78 |
| Industrial Chemistry.. | 69 | 2 | 2(opt.) | .. | .. | 73 |
| Phys. Chem. and Lab. | 67 | 2 | 1 | 2 | 1 | 72 |
| Applied Electro-Chemistry and Lab. (alt.). | 70 | 2 | .. | .. | .. | 73 |
| Electro-Metal. (alt.)... | 275 | .. | 2 | .. | .. | 99 |
| Electro-Metal Lab. (alt) | 276 | .. | .. | .. | 1 | 99 |
| Fire Assay (alt.)..... | 263 | .. | .. | 2 | .. | 96 |
| Geology, General (alt.) | 141 | 2 | 2 | ⅓ | ⅓ | 83 |
| Inorganic Quant. Anal. and Lab. (alt.)..... | 68 | .. | 1 | 6 | 6 | 73 |
| Org. Chem. & Lab. (alt.) | 66 | 2 | 2 | 6 | 6 | 72 |

* A laboratory period is three hours.

## IV. Civil Engineering.

In the third year of this course the strength of materials is a principal subject of study. The knowledge of this subject and of mechanics already gained, is applied to simple problems in the analysis of stresses in framed structures, and to the design of foundations, girders, columns, roof-trusses and the like. Courses in surveying extend throughout the second and third years, with summer school sessions for field-work at the beginning of the second, third and fourth years. Courses in railway and municipal engineering run through the third and fourth years.

In the fourth year comprehensive courses are given in geodesy, hydraulics, hydraulic machinery and theory of structures. Much of the time in this year is, however, devoted to the details of bridge design, as it is thought that a thorough knowledge of this subject is a suitable preparation for work in the entire field of structural design.

Facilities are afforded to graduate students who wish to engage in research work in the strength and elasticity of materials and the like, or in more advanced work in structural design than can be overtaken in the undergraduate courses. A post-graduate course in practical astronomy and geodesy will also be provided for any who may desire to specialize in geodetic work.

## FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 37 and 38.

## THIRD YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory etc., periods* per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Calculus (optional) | 201 | 1 | 1 | .. | .. | 87 |
| Descriptive Geometry | 351 | 1 | 1 | 1 | 1 | 79 |
| Eng. Economics | 171 | .. | 2 | .. | .. | 85 |
| Foundations & Masonry | 89 | 1 | .. | 1 | .. | 75 |
| Geology, General | 141 | 2 | 2 | ⅓ | ⅓ | 83 |
| Mapping | 355 | .. | .. | 2 | 2 | 106 |
| Mechanical Eng. | 226 | 2 | 2 | .. | .. | 90 |
| Mechanical Eng. Lab. | 228 | .. | .. | 1 | 1 | 91 |
| Mechanics | 86 | 2 | .. | .. | .. | 74 |
| Municipal Engineering | 91 | 1 | 1 | .. | .. | 78 |
| Railway Engineering | 372 | 2 | 2 | .. | .. | 108 |
| Strength of Mats & Lab | 87 and 88 | 2 | 2 | .. | 1 | 75 |
| Structural Engineering | 90 | .. | 1 | .. | 1 | 76 |
| Surveying | 353 | 2 | 2 | .. | .. | 106 |
| Surveying Fieldwork | 354 | .. | .. | .. | .. | 106 |

## FOURTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Bridge Design | 96 | 2 | 2 | 2 | 2 | 76 |
| Elements of Electrical Engineering | 111 | 2 | 2 | .. | .. | 81 |
| Electrical Eng. Lab. | 112 | .. | .. | 1 | 1 | 81 |
| Electric Railways | 389 | .. | 2 | .. | .. | 111 |
| Geodesy | 359 | 2 | .. | .. | .. | 106 |
| Geodetic Laboratory | 360 | .. | .. | 1 | .. | 107 |
| Geodetic Fieldwork | 361 | .. | .. | .. | .. | 106 |
| Hydraulics | 97 | 2 | .. | .. | .. | 77 |
| Hydraulic Laboratory | 98 | .. | .. | 1 | .. | 77 |
| Hydraulic Machines | 99 | .. | 2 | .. | .. | 77 |
| Municipal Engineering | 100 | .. | 2 | .. | .. | 78 |
| Railway Engineering | 388 | 2 | .. | .. | .. | 111 |
| Reinforced Concrete | 95 | .. | .. | .. | 2 | 76 |
| Theory of Structures | 94 | 3 | 3 | 1 | 1 | 76 |

NOTE.—Surveying Fieldwork, 4 weeks, beginning September 4th, 1911. For students entering second, third and fourth years, see page 106.

* A laboratory period is three hours.

## V. Electrical Engineering.

The electrical studies of the third year embrace a consideration of current flow, in circuits of different kinds, the principles of electro-magnetism, electrical measurements and the design and action of electrical machinery.

Students of the third year who intend to take up electrochemistry and electro-metallurgy in the fourth year must take chemistry and may omit mechanics of machines.

Students of the third year who intend to take hydraulics (fourth year) must take mechanics of machines and may omit chemistry.

The fourth year is devoted principally to electrical work, and includes lectures and recitations on variable and alternating current phenomena, the principles of action and the design of alternating current and commutating machinery, electric lighting and systems of power distribution, central station design and operation, urban and inter-urban railways and hydro-electric power development.

In the fourth year a choice may be made between electrochemistry and electro-metallurgy or hydraulics, following the choice between chemistry and mechanics in the third year.

Each fourth year student is required to present a thesis giving the results of a suitable experimental investigation.

Occasional visits are made to electrical works and plants.

FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 37 and 38.

THIRD YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods* per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Applied Electro-Chemistry & Lab. (alt.) | 63 | 1 | 1 | ⅔ | ⅔ | 72 |
| Electrical Engineering. | 113 | 2 | 2 | .. | .. | 80 |
| Electrical Engin. Lab. | 114 | .. | .. | 2 | 2 | 81 |
| Calculus | 201 | 1 | 1 | .. | .. | 87 |
| Machine Design | 225 | 2 | 2 | .. | .. | 90 |
| Mechanical Drawing | 232 | .. | .. | 1 | 1 | 92 |
| Mech. Eng. and Lab. | 226 and 228 | 2 | 2 | 1 | 1 | 90 |
| Mechanics | 86 | 2 | .. | .. | .. | 74 |
| Mechan. of Mach. (Alt.) | 224 | 2 | 2 | ⅓ | ⅓ | 90 |
| Physics | 320 | 1 | 1 | .. | .. | 105 |
| Physics Lab | 321 | .. | .. | 2 | 2 | 105 |
| Strength of Mats. & Lab | 87 and 88 | 2 | 2 | .. | 1 | 75 |
| Sum. Sch. Mech. Draw. | 230 | .. | .. | .. | .. | 91 |
| Sum. Sch. Shopwork | 233, 234 | .. | .. | .. | .. | 92 |
| Summer Sch. Physics. | 317 | .. | .. | .. | .. | 105 |

FOURTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Advanced Physics (opt) | 323 | 2 | 2 | .. | .. | 105 |
| Applied Elec.-Chem & Lab. (Alt.) | 70 | 2 | .. | 1 | .. | 73 |
| Electro-Metallurgy & Lab. (alt.) | 275 | .. | 2 | 2 | 1 | 99 |
| Electrical Designing | 122 | 1 | 1 | ⅓ | ⅓ | 81 |
| Electrical Engineering. | 117 | 3 | 3 | .. | .. | 80 |
| Elect. Engineer'g Lab | 118 | .. | .. | 3 | 3 | 81 |
| Elect. Light and Power Distribution | 120 | 2 | .. | .. | .. | 80 |
| Electric Traction | 121 | .. | 2 | .. | .. | 80 |
| Hydraulics (alt.) | 97 | 2 | .. | .. | .. | 77 |
| Hydraul. Lab. (alt.) | 98 | .. | .. | 1 | .. | 77 |
| Hydraul. Mach. (alt.) | 99 | .. | 2 | .. | .. | 77 |
| Machine Design | 243 | 2 | .. | .. | .. | 93 |
| Mech. Engineer'g Lab. | 249 | .. | .. | 2 | .. | 94 |
| Thermodynamics | 229 | 2 | 2 | .. | .. | 91 |

* A laboratory period is three hours.

## VI. Mechanical Engineering.

The subjects of instruction in this Department are of interest to students who are likely to take up work connected with—

(*a*) The constructive or manufacturing side of mechanical engineering, including industrial or production engineering.
(*b*) Steam Engineering.
(*c*) Gas Engine and Producer Work.
(*d*) Power Plant Engineering.
(*e*) Heating and Ventilation of Buildings and Factories.
(*f*) Locomotive Engineering.
(*g*) Marine Engineering and Ship Propulsion.

Courses are given during the third and fourth years in mechanical engineering as applied to questions connected with power installations and prime movers. The earlier portion of this work is supplementary to the instruction given in thermodynamics, mechanics of machines and machine design, and leads up to the more advanced or technical subjects of power plant design, industrial plant design, works organization, locomotive engineering and marine engineering.

Students in the Department of Mechanical Engineering take systematic work in electrical engineering during the third, and fourth years.

Instruction in workshop practice is given in each of the four years. This work is of a systematic nature, and is intended to prepare for, but by no means to replace, that practical experience of manufacturing operations on a commercial basis which every mechanical engineer must obtain for himself.

*Students intending to take the Mechanical Engineering Course are requested to confer with the Professor with a view to utilizing the summer vacations for obtaining this experience.*

The work in machine design is carried on during the third and fourth years in conjunction with the practical instruction in mechanical designing and drawing in the drawing rooms.

The course in thermodynamics deals more particularly with the theory of heat engines, and time is assigned for additional graphical and experimental work in connection with the subject.

Arrangements are made for occasional visits to power plants and manufactories of importance.

## FIRST AND SECOND YEARS.

As in other Engineering Courses (see pages 37 and 38), with additional course in May and June for Second Year (page 60).

### THIRD YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods* per week | | For details see page |
|---|---|---|---|---|---|---|
| | | 1st Term | 2nd Term | 1st Term | 2nd Term | |
| Eng. Economics | 171 | .. | 2 | .. | .. | 85 |
| Engineering Law | 175 | 1 | 1 | .. | .. | 85 |
| Elements of Elect. Eng. | 111 | 2 | 2 | .. | .. | 81 |
| Elect. Eng. Lab. | 112 | .. | .. | 1 | 1 | 81 |
| Machine Design | 225 | 2 | 2 | .. | .. | 90 |
| Mechanical Drawing | 231 | .. | .. | 2 | 1 | 92 |
| Mechanical Eng. & Lab. | 227 and 228 | 3 | 3 | 1 | 1 | 90 |
| Mechanics | 86 | 2 | .. | .. | .. | 74 |
| Mechanics of Machines. | 224 | 2 | 2 | ⅓ | ⅓ | 90 |
| Shopwork | 235, 236 | .. | .. | 1 | 1 | 92 |
| Shop Processes and Management | 237 | .. | 1 | .. | 1 | 92 |
| Strength of Mats. & Lab | 87 and 88 | 2 | 2 | .. | 1 | 75 |
| Structural Engin'r'g | 90 | .. | 1 | .. | 1 | 76 |
| Thermodynamics | 229 | 2 | 2 | .. | .. | 91 |
| Sum. Sch. Mech. Draw. | 230 | .. | .. | .. | .. | 91 |
| Sum. Sch. Shopwork | 233, 234 | .. | .. | .. | .. | 92 |
| Sum. Sch. Physics | 317 | .. | .. | .. | .. | 105 |

### FOURTH YEAR

| | | | | | | |
|---|---|---|---|---|---|---|
| Designing | 241 | .. | .. | 1 | 2 | 93 |
| Elect. Eng. Lab. | 119 | .. | .. | 1 | .. | 82 |
| Experimental Eng. | 257 | .. | 1 | .. | 1 | 94 |
| Hydraulics and Lab. | 97 and 98 | 2 | .. | 1 | .. | 77 |
| Hydraulic Machines | 99 | .. | 2 | .. | .. | 77 |
| ***Manufact Plant Design | 253 | .. | 2 | .. | 1 | 95 |
| Machine Design | 242 | 2 | 2 | .. | .. | 93 |
| Mechanical Engin'r'g | 244 | 1 | 1 | .. | .. | 93 |
| ** Heat. and Vent. of Buildings | 247 | 1 | 1 | .. | .. | 94 |
| ** Locom. Eng. | 245 | 1 | 1 | .. | .. | 94 |
| ** Marine Engin'r'g | 246 | 1 | 1 | .. | .. | 94 |
| Mech. Eng. Lab. | 249 | .. | . | 3 | 3 | 94 |
| Mech. of Mach | 240 | 2 | 2 | ⅓ | ⅓ | 93 |
| Works Organ. and Accounting | 254 | .. | 1 | .. | 1 | 95 |
| Shopwork | 252 | .. | .. | 1 | 1 | 95 |
| Thermodynamics | 251 | 2 | 2 | .. | .. | 94 |

* A laboratory period is three hours.
** One of the three subjects must be taken.
*** Either course 253 or 99 can be taken, but not both.

## VII. Metallurgical Engineering.

This course is designed for students intending to enter metallurgical works such as iron or steel works or smelters. It includes instruction in the engineering, chemical and metallurgical studies required by practising metallurgists.

A certain amount of mining is included in the third year curriculum in order to show the relation between mining and metallurgy; but the course is not intended for students wishing to become mining engineers.

Students who wish to specialize on the chemical side of metallurgy are recommended to select Course VIII.

In the third year of the Metallurgical Engineering Course instruction is given in chemistry, assaying, geology, mineralogy, metallurgy, mining, ore-dressing, and mechanical, structural and business engineering.

Between the third and fourth years there is a summer school in metallurgical works.

In the fourth year instruction is given in chemistry, electrical engineering, law, hydraulics, metallurgy and ore-dressing. Metallurgical designing and laboratory work form important parts of the course. The laboratory work is partly metallurgical and partly ore-dressing, in the first term, and in the second term a special piece of experimental work is undertaken by each student.

### FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 37 and 38.

After the second year there is a four weeks' summer school in qualitative and quantitative analysis in the chemical laboratory, beginning about the first of May.

## THIRD YEAR.

| SUBJECT. | Subject Number | Lectures per week | | Laboratory, etc., periods* per week | | For details see page |
|---|---|---|---|---|---|---|
| | | 1st Term | 2nd Term | 1st Term | 2nd Term | |
| Engineering Economics | 171 | .. | 2 | .. | .. | 85 |
| Fire Assaying, Part I. | 263 | 1 | .. | 2 | .. | 96 |
| Geology, General | 141 | 2 | 2 | ⅓ | ⅓ | 83 |
| Gen. Element. Metall. | 261 | 2 | .. | .. | .. | 96 |
| Inorg. Quant. Anal. | 61 and 62 | 1 | .. | 2 | .. | 72 |
| Mechanical Engin'r'g. | 226 and 228 | 2 | 2 | 1 | 1 | 90 |
| Metall. Calculations | 265 | 1 | 1 | .. | .. | 97 |
| Metall. Colloquium | 266 | 1 | 1 | .. | .. | 97 |
| Metallurgical Lab. | 262 | .. | .. | 1 | .. | 96 |
| Mineralogy | 142 and 143 | 2 | 2 | .. | 2 | 83 |
| Mining Engineering | 291 | .. | 2 | .. | .. | 100 |
| Ore Dressing | 292 and 293 | .. | 3 | .. | 1 | 100 |
| Strength of Materials | 87 and 88 | 2 | 2 | .. | 1 | 75 |
| Structural Engineering | 90 | .. | 1 | .. | 1 | 76 |
| Summer School Inorg. Qual. Anal. and Lab. | 54 and 55 | .. | .. | .. | .. | 71 |

## FOURTH YEAR

| | | | | | | |
|---|---|---|---|---|---|---|
| Elements of Elect. Eng. | 111 and 112 | 2 | 2 | 1 | 1 | 81 |
| Electro-Metall. & Lab. | 275, 276 | .. | 2 | .. | 1 | 99 |
| Engineering Law | 175 | 1 | 1 | .. | .. | 85 |
| General Metallurgy | 271 | 2 | 2 | .. | .. | 97 |
| Hydraulics | 97 | 2 | .. | .. | .. | 77 |
| Industrial Chemistry | 69 | 2 | .. | .. | .. | 73 |
| Inorganic Quant. Anal. | 68 | 1 | 1 | 4 | 1 | 73 |
| Metallurgy | 272 | 2 | 2 | .. | .. | 98 |
| Metallurgy Colloquium | 277 | 1 | 1 | .. | .. | 99 |
| Metall. Lab., I. and II. | 273, 274 | .. | .. | 1 | 3 | 98 |
| Metall. Mach. & Design | 278 | .. | .. | .. | 2 | 99 |
| Ore Dressing | 299 and 300 | 2 | .. | 1 | .. | 101 |
| Ore Deposits & Economic Geology (opt.) | 148 | .. | 3 | .. | .. | 84 |
| Sum. Sch. Metal. Works | 267 | .. | .. | .. | .. | 97 |

* A laboratory period is three hours.

NOTE:—Metallurgical works, at end of third year—see fourth year tables.

After the third year there is a field course in geology and metallurgy, beginning about the first of May.

## VIII. Metallurgy.

This course is designed for students who intend to devote their attention mainly to the chemical side of metallurgy with the intention of becoming analytical or consulting metallurgical chemists. The first two years are the same as in the Chemistry Course. In the third and fourth years instruction is given in analytical chemistry and assaying, theoretical inorganic and electro-chemistry, metallurgy, mineralogy, geology, and ore-dressing. Certain options are offered in the fourth year.

### FIRST YEAR.

As in other courses. For details, see page 37.

### SECOND YEAR.

As in Course II, Chemistry. For details, see page 42.

Before the third year a summer school in fire-assaying is given. This will be held in September, 1912. For details, see courses 263 and 264, which it will replace.

## THIRD YEAR

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods* per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Engin. Economics.... | 171 | .. | 2 | .. | .. | 85 |
| Fire Assaying, Part I... | 263 | .. | .. | 2 | .. | 96 |
| Geology, General..... | 141 | 2 | 2 | ⅓ | ⅓ | 83 |
| Gen. Element. Metall.. | 261 | 2 | .. | .. | .. | 96 |
| Inorg. Quant. Anal... | 61 and 62 | 1 | .. | 4 | 3 | 72 |
| Metall. Calculations... | 265 | 1 | 1 | .. | .. | 97 |
| Metall. Colloq. & Lib.. | 266 | 1 | 1 | 2 | 2 | 97 |
| Metallurgical Lab..... | 262 | .. | .. | 1 | .. | 96 |
| Mineralogy ..... | 142 and 143 | 2 | 2 | .. | 2 | 83 |
| Ore Dressing ..... | 292 and 293 | .. | 3 | .. | 1 | 100 |
| Physical Chemistry.... | 58 | .. | 2 | .. | .. | 72 |

## FOURTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Electro-Chem. & Lab.. | 70 | .. | 2 | .. | 1 | 73 |
| Electro-Metall. & Lab. | 275, 276 | .. | 2 | .. | 1 | 99 |
| Engineering Law..... | 175 | 1 | 1 | .. | .. | 85 |
| Fire Assaying, Part II. | 264 | .. | .. | 1 | .. | 96 |
| General Metallurgy ... | 271 | 2 | 2 | .. | .. | 97 |
| Industrial Chemistry.. | 69 | 2 | .. | .. | .. | 73 |
| Inorg. Quant. Anal... | 68 | 1 | 1 | 4 | 1 | 73 |
| Metallurgy..... | 272 | 2 | 2 | .. | .. | 98 |
| Metallurgy Colloquium | 277 | 1 | 1 | .. | .. | 99 |
| Metall.Lab., Pts. I.&II. | 273, 274 | .. | .. | 1 | 3 | 98 |
| Metall. Mach. & Design | 278 | .. | 1 | .. | 2 | 99 |
| Ore Dressing & Lab... | 299 and 300 | 2 | .. | 1 | .. | 101 |
| Ore Deposits & Economic Geology (opt.) | 148 | .. | 3 | .. | .. | 84 |
| Petrog. and Lab. (opt.) | 147 | 1 | .. | .. | 1 | 84 |
| Sum.Sch.Metall.Works | 267 | .. | .. | .. | .. | 97 |

* A laboratory period is three hours.

Note:—Metallurgical works, at end of Third Year—see Fourth Year Tables.

## IX. Mining Engineering.

Specialization does not begin until the third year, when elementary courses in both mining and metallurgy are given, and a thorough course in fire assaying, but the chief work is in such fundamental subjects as applied mechanics, mechanical engineering, chemistry, geology, and mineralogy.

The fourth year, on the other hand, is very largely given up to detailed work in mining, ore-dressing, economic geology, metallurgy and general engineering, and three elective alternative lines of study are offered, all including the essential subjects of the course and all leading to the degree in Mining Engineering, but each permitting of a considerable amount of specialization.

These alternative or sub-courses are:

(*a*) Mining Engineering and Geology.
(*b*) Mining and Metallurgical Engineering.
(*c*) Mining and Hydraulic Engineering.

The details of these sub-courses are clearly shown in the tabular statement of the fourth year work following, and students are required to choose which one they will take before the close of their third year.

In all cases the fourth year work includes the equivalent of at least three full days per week in the laboratories and drafting room of the mining department and in the second term each student is required to prepare a thesis giving the result of an extended individual experimental investigation.

A field school in Mining, Ore Dressing and Geology is held between the third and fourth years, the work ordinarily beginning immediately after the close of the April Examinations, and from four to six weeks are spent in travel, during which a number of mines and concentrators are visited and critically studied under the direction of the departmental staff. Attendance on this school is obligatory except in the case of men who can show evidence of having taken advantage of equivalent opportunities elsewhere.

At the close of the field school all students are expected to take work as labourers, etc., in mines or mills for the remainder of the summer as a certain amount of experience of this character is considered essential.

### FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 37 and 38.

## THIRD YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods* per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Engineering Econ.... | 171 | .. | 2 | .. | .. | 85 |
| Fire Assaying..... | 263 | 1 | .. | 2 | .. | 96 |
| Geology, General..... | 141 | 2 | 2 | 1/3 | 1/3 | 83 |
| Inorg Qual.Anal.&Lab. | 59 and 60 | 1 | 1 | .. | 2 | 72 |
| Mapping..... | 355 | .. | .. | 1 | .. | 109 |
| Mech. Eng. & Lab.... | 226 and 228 | 2 | 2 | 1 | 1 | 90 |
| Metall., Gen. Element. | 261 | 2 | .. | .. | .. | 96 |
| Mineralogy..... | 142 | 2 | 2 | .. | .. | 83 |
| Mineralogy, Determin. | 143 | .. | .. | 2 | .. | 83 |
| Mining Engineering... | 291 | .. | 2 | .. | .. | 100 |
| Ore Dressing & Lab... | 292 and 293 | 1 | 3 | .. | 1 | 100 |
| Railway Engineering. | 372 | 1 | .. | .. | .. | 108 |
| Strength of Mats.&Lab. | 87 and 88 | 2 | 2 | .. | 1 | 75 |
| Struct. Engineering... | 90 | .. | 1 | .. | 1 | 76 |
| Surveying..... | 352 | 2 | .. | .. | .. | 106 |
| Surveying Field Work | 354 | .. | .. | .. | .. | 106 |

## FOURTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Elem.of Elec.Eng&Lab | 111 and 112 | 2 | 2 | 1 | 1, alt. (b) (c) | 81 |
| Engineering Law..... | 175 | 1 | 1 | .. | .. | 85 |
| Geology of Canada.... | 149 | 1 | .. | .. | .. | 84 |
| Geology, Historical.... | 152 | 1,alt.(a) | 1,alt.(a) | .. | 1,alt.(a) | 85 |
| Hydraulics..... | 101 | 1, alt. (a) (b) | | | | 78 |
| Hydraulics..... | 97 | 2,alt (c) | .. | .. | .. | 77 |
| Hydraulic Machines.. | 99 | .. | 2,alt.(c) | .. | .. | 77 |
| Metallurgy, General... | 271 | 2 | 2 & 1 alt. (b) | .. | .. | 97 |
| Mineral Analysis..... | 71 | .. | .. | 4 | .. | 73 |
| Mining Engineering.. | 297 | 3 | 3 | .. | .. | 100 |
| Mining Mach. & Design | 298 | .. | 1 & 1 alt. (b) | .. | 2 | 100 |
| Mining Colloquium. .. | 302 | .. | 1 | .. | .. | 101 |
| Ore Dep. & Econo. Geo. | 148 | 1 | 4 | .. | .. | 84 |
| Ore Dressing & Milling | 299 | 3 | .. | .. | .. | 101 |
| Ore Dress. &Metall.Lab | 300, 273 | .. | .. | 1 & 1 alt (b)(c) | .. | 98 |
| Ore Dressing Thesis... | 301 | .. | .. | .. | 3 | 101 |
| Petrography & Lab... | 146 | 1 | .. | .. | 1 | 83 |
| Petrog'hy, Advanced.. | 147 | .. | .. | 1, alt. (a) | .. | 84 |
| Mining Field School... | 294 | .. | .. | .. | .. | 103 |
| Field Geology (alt. (a). | 153 | .. | .. | .. | .. | 85 |

*A laboratory period is three hours.

NOTE—Mining Field work at end of Third Year—See Fourth Year Table.
Surveying Field work, beginning Sept. 4th, 1911. See page 106.

## X. Railways.

The courses in Railways are designed for students who will enter:—

(1) The Operating Department or Executive Offices.
(2) The Mechanical Department.
(3) The Engineering Department.

The work of the first and second years is identical with that of the other courses in the Faculty of Applied Science; that of the third and fourth years is shown opposite.

The Faculty reserves the right to reject any student who, in the opinion of the Head of the department, cannot fulfil the requirements of the railways.

Students in the department will, so far as possible, enter the employ of a railway company during the summer vacations, with the intention of continuing their connection with the company after graduation.

### MECHANICAL ENGINEERING COURSE.

The work of the first, second and third years will follow that outlined for Mechanical Engineering students (page 51). During the fourth year opportunity will be given for specializing in locomotive construction and operation.

### CIVIL ENGINEERING COURSE.

Students in this course will follow that outlined for Civil Engineering students (page 47) and, in addition, will be required to engage in practical work during the vacations under the supervision of the department of railways.

## OPERATING AND EXECUTIVE COURSE.

First and Second Years as in other courses. See pages 37 and 38.

### THIRD YEAR.

| SUBJECT | Subject Number | Lectures per week | | Laboratory, etc., periods* per week | | For details see page |
|---|---|---|---|---|---|---|
| | | First Term | Second Term | First Term | Second Term | |
| Economics | 172 | 2 | 2 | .. | .. | 108 |
| Engineering Law | 175 | 1 | 1 | .. | .. | 85 |
| English | 135 | 2 | 2 | .. | .. | 108 |
| Freight Service | 371 | .. | 2 | .. | .. | 108 |
| Mapping | 355 | .. | .. | 2 | 2 | 109 |
| Mech. Eng. Lab | 228 | .. | .. | 1 | 1 | 91 |
| Mechanics | 86 | 2 | .. | .. | .. | 74 |
| Ry. Organi'n. & Acct. | 374 | 1 | 1 | .. | .. | 109 |
| Ry. Engineering | 372 | 2 | 2 | .. | .. | 108 |
| Ry. Mech. Engineer'g. | 373 | 2 | 2 | .. | .. | 109 |
| Strength of Mats. & Lab | 87 and 88 | 2 | 2 | .. | 1 | 75 |
| Structural Engineering | 90 | .. | 1 | .. | 1 | 76 |
| Shorthand | 375 | 2 | 2 | .. | .. | 109 |
| Telegraphy | 376 | .. | .. | 1 | 1 | 109 |
| Surveying Fieldwork | 354 | .. | .. | .. | .. | 106 |

### FOURTH YEAR.

| | | | | | | |
|---|---|---|---|---|---|---|
| Accounting | 379 | 1 | 1 | .. | .. | 109 |
| Elements of Elect. Eng. | 111 | 2 | 2 | .. | .. | 81 |
| Electrical Eng. Lab | 112 | .. | .. | 1 | 1 | 81 |
| Electric Railways | 389 | .. | 2 | .. | .. | 111 |
| English | 138 | 1 | 1 | .. | .. | 110 |
| Freight Service | 380 | .. | 1 | .. | .. | 110 |
| Passenger Service | 385 | 1 | .. | .. | .. | 110 |
| Physical Geography | 150 | 1 | 1 | .. | .. | 84 |
| Railway Economics | 177 | 2 | 2 | .. | .. | 109 |
| Railway Engineering | 388 | 2 | .. | .. | .. | 111 |
| Railway Law | 176 | 2 | .. | .. | .. | 111 |
| Railway Mechanical Eng. | 386, 387 | 2 | 2 | 1 | 1 | 111 |
| Railway Operation | 381 | 2 | 2 | .. | .. | 110 |
| Signals and Interlocking | 382,383,384 | 1 | 1 | 1 | 1 | 110 |
| Shorthand | 390 | 2 | 2 | .. | .. | 112 |
| Telegraphy | 391 | .. | .. | 1 | 1 | 112 |

* A laboratory period is three hours.

## SUMMER WORK.

1. All undergraduates entering the second year (excepting those taking the Practical Chemistry Course [Course II], and the Metallurgy course [Course VIII.], students in the Civil Engineering, Mining Engineering and Railway Courses entering the third year, and students in the Civil Engineering Course entering the fourth year, are required to be in attendance at the Surveying School on the 4th of September, when the field work in surveying and geodesy will commence. (See page 106).

2. Undergraduates in the Mechanical, Electrical, Chemical and Metallurgical Engineering Courses and, in 1912 and thereafter, those in the Chemistry and Metallurgy Courses (II and VIII) also, are required to attend a summer session of four weeks between the second and third years. The work to be done in the first two of these courses is as follows:—mechanical drawing (machine design and machine drawing), 10 hours per week: physics and physical laboratory work, 11 hours per week; shopwork (smith shop and foundry), 11 hours per week. Undergraduates in Metallurgical Engineering will take courses in qualitative and quantitative chemical analysis, and those in Chemistry and Metallurgy will take fire assaying.

Commencing with 1912 this summer work will be done during the month of September.

3. Undergraduates in the Mining and Metallurgical Courses are required to attend the summer schools in Mining and Metallurgy, held between the third and fourth years (four to six weeks of field-work). These schools are held in May and June. (See pages 97 and 103.)

# SUMMER ESSAYS AND SUMMER READING.

## SESSION 1911-1912.

### 1. For Students Entering the Second Year.

All students entering the Second Year, except those in the Course in Architecture (see below), will be required to read the following English Classics:—

Southey's "Life of Nelson."
Lamb's "The Essays of Elia."
Kingsley's "Hereward the Wake."
Dickens' "David Copperfield."
George Eliot's "Adam Bede."
} Everyman's Library.

Students in the course in Architecture must read the following books:—

Bloomfield, Reginald—The Mistress Art. (London, 1908, Edward Arnold.)
Belcher, John—Essentials in Architecture. (London, 1907, Batsford.)

Students in the course in Architecture must also either (a) spend five weeks in the office of an architect or contractor, or (b) prepare thirty-five reasonably large free hand sketches in any desired medium.

All students will be required to pass an examination in the summer reading at the opening of the session. A maximum of 100 marks will be allowed for this reading.

### 2. For Students Entering the Third Year.

Students entering the Third Year, except those in the Course in Architecture (see below), may

(a) prepare an essay, or
(b) follow a course of summer reading.

(a) The essay must in all respects follow the specifications laid down in the case of essays submitted by students entering the Fourth Year, except that it should be somewhat shorter, consisting of about 2,000 words. All rules and regulations

governing the Fourth Year essays, as set forth below, also apply to the Third Year essays.

Students in Electrical Engineering, electing to write an essay, and who are not engaged during the summer on any engineering, scientific or industrial work which would afford a subject for an essay, may write on one of the following subjects:—

(a) The Application of Electric Power to Industrial Establishment.
(b) The Heating of Copper Wires by Electric Currents.

(b) The summer reading which may be substituted for the summer essay consists of

Shadwell's Industrial Efficiency. (Longmans, Green & Co., 1909).

Students in the Course in Architecture are not permitted to submit an essay, but must read the following books:—

Bloomfield, Reginald—The Mistress Art. (London, 1908, Edward Arnold.)
Memoirs of Benvenuto Cellini—Translated by Roscoe. (Everyman's Library.)

Students will be required to pass an examination in the summer reading at the opening of the session. The same number of marks are allotted for this reading as for the essay.

Students in the course in Architecture must either (a) spend five weeks in the office of an architect or contractor, or (b) prepare thirty-five reasonably large free hand sketches in any desired medium.

### 3. For Students Entering the Fourth Year.

Students entering the Fourth Year, except those in the Course in Architecture (see below), are required to prepare an essay during the summer, to be handed in at the Dean's Office not later than 5 p.m. on Tuesday, October 10th. A maximum of 100 marks, or nearly 10% of the total marks for the year, is given for these essays.

The essays should be from 2,000 to 5,000 words in length. They should be illustrated by drawings, sketches, and (when desirable) by photographs, specimens, etc.

The *most acceptable subject for an essay* is a critical description of the work on which the student is engaged during the

summer, but a description of any engineering, scientific or industrial work with which he is familiar will be accepted.

Students in Electrical Engineering, who are not directly connected with any such work, may write on the following subjects:

(a) Long Distance Transmission Lines.
(b) The Cost of Electric Power.
(c) The Substitution of Electricity for Steam on Railroads.

No essay compiled from books alone will be accepted unless the student has obtained in advance the permission of the Head of his Department to prepare such an essay.

The essays must be well expressed and written in precise, well-chosen, grammatical English. In preparing them advantage may be taken of any source of information, but due acknowledgment must always be made, and they must contain a statement of all authorities and books consulted. In judging of the value of the essays, account will be taken not only of the subject matter, but also of style and literary construction.

All essays when handed in will become the property of the Department concerned and will be filed for reference. Students may submit duplicate copies of their essays in competition for the students' prizes of the Canadian Society of Civil Engineers, or of the Canadian Mining Institute.

It is requested that, so far as possible, the essays be written on paper of substantial quality and of a size 8¼ x 10 inches, as in the case of the theses submitted to the Graduate School. (See General Announcement).

Students in the Course in Architecture are not permitted to submit an essay, but must read the following books:—

Bloomfield, Reginald—The Mistress Art. (London, 1908, Edward Arnold.)
Memoirs of Benvenuto Cellini—Translated by G. Roscoe. (Everyman's Library.)

They will be required to pass an examination on this reading at the opening of the session. A maximum of 100 marks will be allowed for the work.

In addition to this reading students in the course in Architecture must either (a) spend five weeks in the office of an architect or contractor, or (b) prepare thirty-five reasonably large free hand sketches in any desired medium.

## SUBJECTS OF INSTRUCTION.

N.B.—The following courses are subject to such modifications during the year as the Faculty may deem advisable.

### Department of Architecture.

PROFESSOR:—PERCY E. NOBBS.

ASSISTANT PROFESSOR:—THOMAS W. LUDLOW.

LECTURERS:—PHILLIP TURNER. CECIL S. BURGESS. H. M. LAMB. M. C. T. BEULLAC.

INSTRUCTOR:—H. HÉBERT.

#### A.—DESIGN.

At least two terms in each grade in the design classes are required to qualify for the degree.

*No.* 1, *Grade A.*—Six problems in composition, the subjects being adapted to simple trabeate treatment, and monumental grouping.

*No.* 2, *Grade B.*—Four problems in composition, and sketch problems, the subjects involving simple plans and the grouping of elements.

*No.* 3, *Grade C.*—A series of planning problems are set in the first term. In the second term the diploma design for graduation occupies the whole of the time. Prof. Nobbs.

#### B.—ÆSTHETIC.

The theoretical courses that follow are intended to develop a sense of critical judgment in the student, and to emphasize the fundamental principles of composition and design.

No. 4. *The Elements of Architecture* (24 *Lectures*).

The five orders of Vignola, the Greek orders, pedestals, pediments, intercolumniation and superposition of orders, arches, vaults, roofs, domes, openings, walls, and stairs. Mr. Ludlow.

No. 5. *The Theory of Architecture* (24 *Lectures*).

Analogies in the arts, proportion, scale, expression, decoration; massing, treatment of walls, roofs, fenestration, etc., unity, symmetric and asymmetric grouping, individuality, horizontality and verticality. Mr. Ludlow.

No. 6. *Theory of Design* (24 *Lectures*).

*Æsthetic Practice*:—Pure design; the function of ornament; the moral logic of ornamental motif; the material logic of ornamental treatment; evolution of form; the placing of ornament; classification of significant ornament.

*Æsthetic Theory*:—The history of æsthetic enquiry; the phenomena of perception, pleasure, pain, and expression; the art impulse, and the relation of beauty to the art; subject, emotional content and medium in works of art; the criteria of excellence. Prof. Nobbs.

No. 7. *Theory of Planning* (24 *Lectures*).

*Elements of Planning*:—The relation of planning to external composition; dimensions and arrangements, scale, aspect, and prospect.

*Domestic Buildings*:—Residential architecture of all types, stables, garages, etc.

*Ecclesiastical Art*:—Church plans in relation to the service.

*Special Types*:—Fire stations, baths, hospitals, schools, factories, libraries, etc.

*Public Buildings*:—Town halls, municipal buidings, court houses, Parliament buildings, large halls. Prof. Nobbs.

*Ornament and Decoration* (48 *Lectures and* 48 *Drafting Periods*), 1, 8, 9, 10, *and* 11.

No. 8. *Decorative Heraldry*:—The place of heraldry in the arts; the laws of heraldry, heraldic art of different periods; modern practice and tendencies.

No. 9. *Ornament in Form*:—Plaster work, terra cotta, stone carving, architectural sculpture, wood carving and furniture design are dealt with historically from the point of view of the evolution of form in distinctive materials influenced incidentally by the prevailing tastes of different periods.

No. 10. *Metal Work*:—Wrought iron work, cast iron work and bronze, beaten metal work in copper, brass and silver are dealt with technically and historically.

No. 11. *Colour Decoration*:—Stained glass, mosaic of various kinds, inlays, the use of coloured materials in external and internal design, mural decoration, and the analysis and construction of pattern are studied in the spirit above set forth. Prof. Nobbs and Mr. Burgess.

## C.—Archaeology.

No. 12 *and* 13. *General History*. (96 *Lectures*).

No. 12. The detailed study of the civilization of the early Orient, of Greece, Rome and Byzantium; the mediæval period, pendalism, monasticism, the communes, and the guilds.

No. 13. European History from the fifteenth century; the Renaissance and the Reformation and their results in the sixteenth century; the eighteenth and nineteenth centuries with special reference to France and England. Dr. Fryer.

No. 14. *Ancient and Classic Architecture.* (48 *Lectures.*)

The works of the ancient Egyptians, Chaldeans, Assyrians, Persians, the Ionian Peoples and the Greeks, with special attention to the refinement of form in Hellenic art; the architecture of Rome, Byzantium, and the succeeding period, down to 800 A.D. Mr. Ludlow.

No. 15. *Mediæval Architecture.* (48 *Lectures.*)

The evolution of ecclesiastical architecture in France and England from 800 A.D. to 1500 A.D.; civil and military architecture of the Middle Ages in Europe. The Gothic Schools of Italy, Spain, and the Germanic countries. Mr. Ludlow.

No. 16. *Renaissance Architecture.* (48 *Lectures.*)

The humanist movement of the 15th century as expressed in Italian architecture from 1400 A.D. to 1600 A.D.; the Renaissance in France and the King Louis' Periods; the earlier and later phases of the Renaissance in England and English architecture during the XVIIIth Century. Mr. Ludlow.

No. 17. *Modern Architecture.* (24 *Lectures.*)

The Gothic revival in England; the influence of Pugin, Ruskin and Morris and the Preraphaelites; the Arts and Crafts movement; Shaw and the Free-Classicists; national traditions and exotic styles; taste in Europe during the XXth Century; France, Germany and the Scandinavian countries; Russian revivals; Italy; the Secession; municipal development; European and American city plans, park systems, monuments; XXth century influences in America; colonial traditions of New England and the Spanish and French districts; the Beaux Arts influence; the English influences of various kinds; L'Art Nouveau in Europe and America. Prof. Nobbs.

## D.—Science.

No. 18 and 19. *Mathematics.* (96 *Lectures in First Year and 72 in Second.*)

No. 18. First Year. *Plane and solid geometry*:—The equivalent of Books IV., VI. and XI. of Euclid, with supplementary matter from Hall and Stevens' Euclid.

*Algebra*:—Hall and Knight's Elementary Algebra (omitting chapters 40-42 inclusive), or the same subject matter in similar text books.

*Trigonometry*:—Hall and Knight's Elementary Trigonometry to page 210 and chapter 19; nature and use of logarithms. (Bottomley's four figure tables.)

No. 19. SECOND YEAR. *Geometry*:—(*a*) solid geometry, continuation of the first year; (*b*) geometrical conic sections. Text-book—Wilson's Solid Geometry and Geometrical Conics.

*Algebra*:—Permutations and combinations; binomial theorem; exponential and logarithmic series; undetermined coefficients; partial fractions; summation of typical series; probabilities, determinants; graphic methods. Mr. Davies.

*Nos. 20 and 21. Physics and Physics Laboratory. (48 Lectures and 24 Periods.)*

The instruction includes a fully illustrated course of experimental lectures on the general principles of physics, embracing: the laws of energy, heat, light and sound. Mr. Day.

*Nos. 346, 347 and 348.—Surveying. (Full Course: 4 weeks Field School, 48 Lectures and 24 Draughting Periods.)*

(See page 106.)

Instruction is provided by the Department of Surveying and Geodesy in the Faculty of Applied Science.

*Nos. 22 and 23.—Hygiene of Buildings. (24 Lectures in First Term, 12 Lectures and 12 Draughting Periods in Second Term.)*

No. 22. FIRST TERM. Light and air, water, sanitary plumbing, sewage disposal. Dr. Starkey.

No. 23. SECOND TERM. The heating and ventilation of buildings. Mr. McKergow.

## E.—CONSTRUCTION.

The second year work covers the ordinary building trades and detailing where calculations of a complicated kind are not involved. The third year work deals with structural problems involving calculation, while in the fourth year, problems in structural design are worked out.

*Nos. 24 and 25.—Building Construction and Building Detail. (24 Lectures, 48 Draughting Periods.)*

Building materials, brickwork, masonry, carpentry roofing, etc.; joinery of doors, windows, etc., and the finishing trades, such as plastering, painting and plumbing; underpinning,

shoring, centering and forms; general working drawings are prepared, and building works in progress are visited. Mr. Turner.

*Nos. 26 and 27.—Structural Engineering and Structural Detailing.* (48 *Lectures and* 24 *Draughting Periods.*)

*Steel Construction*:—Ores and manufacture of iron and steel; theory of beams, cases of loading; designing, detailing and shop work of beams; *Columns*:—theory, calculations, eccentric loads; single-sections and built-up steel columns; cast iron columns, beam box girders, plate girders, calculation; steel frame work for buildings; specifications for and inspection of structural steel work; wind bracing and fire-proofing.

*Foundations*:—Soils, beds, timber and concrete piles, pile driving and pile driving machinery; foundations on compressive soils; concrete footings, timber spread footings, steel spread footings; masonry footings; loads on buildings; strength of masonry, statics of masonry, buttresses, stability of buildings, retaining walls.

*Arches*:—Theory of arches. Mr. Beullac.

*Nos. 28 and 29.—Graphical Statics and Structural Design.* 24 *Lectures and* 48 *Draughting Periods.*)

*Analytical and Graphical Statics.*—The design of roof trusses and mill buildings; reinforced concrete in foundations, walls, floors and beams, etc.

F.—Architectural Practice.

*No.* 131.—*English Composition.* (24 *Lectures with Exercises.*)

(See page 82.)

Instruction is provided with the Applied Science first year classes. Mr. Latham.

*No.* 30.—*French.* (96 *Lectures.*)

*Ordinary Courses.*—Vreeland & Koren, French Syntax and Composition (Holt), first ten lessons with exercises I and II for each lesson; Maupassant, Huit Contes Choisis, (Holt); Sandeau, Melle de la Seiglière (Holt); Grammar, Lessons—with Exercises I and II for each lesson; Daudet, Tartarin (A. B. Co.); Dumas, Napoléon (Macmillan), including the passages for translation into French; Pailleron, Le monde où l'on s'ennuie (Jenkins); Milhau, Choix de Poésies (Renouf);

Super, Histoire de France (Holt), Chaps. V and VI to bottom of page 50, pp. 55-60 and Chaps. XVI and XVII to bottom of page 167. Prof. Gregor and Mr. Morin.

*No.* 31.—*Architectural Practice.* (24 *Lectures with exercises.*)

Structure of specifications and general clauses; specifications for all trades; conditions of contract; agreements; building by-laws; estimates, reports, professional ethics. Mr. Turner.

*No.* 175.—*Engineering Law.* (24 *Lectures.*)

(See page 85.)

Instruction is provided with the Applied Science fourth year classes.

G.—DRAWING.

*Nos.* 32, 33, 34, *and* 35.—*Architectural Drawing.* (84 *Periods of Three and Four Hours.*)

The work in this course is in direct connection with the lectures in archæology.

No. 32.—Measured drawings of the orders are prepared direct from the large scale models in the Museum, and existing buildings are surveyed and drawn out.

No. 33.—Restorations from the architectural remains of Greece and Rome, are prepared from the documents in the reference room.

No. 34.—Examples of mediæval architecture are studied; sketch plans and elevations of important works are set up and detail drawings are prepared from documents.

No. 35. A special study is made during the first term of Italian Renaissance examples; the XVIth century architecture of France and England and late examples of French or English fully developed Classic are studied. Mr. Ludlow.

*No.* 36.—*Freehand Drawing.* (24 *Periods.*)

Tuition in freehand drawing, as distinct from the study of design, is provided for first year students only. Mr. Ludlow.

*Nos.* 341 *and* 351.—*Geometrical Drawing and Descriptive Geometry.* (24 *Lectures and* 48 *Periods in First Year and* 12 *Lectures and* 12 *Periods in Third Year.*)

(See page 79.)

Instruction is provided with the first and third year Applied Science classes.

*Nos.* 37, 38, 39 *and* 40.—*Modelling.* (84 *Periods of Two Hours extended over the First, Second, Third and Fourth Years.*)

The student first studies form directly from nature, and later on conventionalizes the forms with which he has become familiar for decorative purposes. The Architectural Museum affords many examples from different periods of the adaptation and abstraction of natural motifs in ornament. They are used to show the spirit in which to work out ornament, and are not copied directly. Models of designs on which the students are engaged are also prepared, and casting is taught. Mr. Hébert.

*Nos.* 41, 42 *and* 43.—*Summer Work.*

During the vacation following the close of the first, second and third years, the students in Architecture are required to read and be prepared to pass an examination on a selected theoretical, æsthetical, or historical architectural work, and in addition to this, to spend at least five weeks' work in the office of some architect or contractor; the period of such employment to be certified by a letter from the employer. For the students who for any reason would find it impracticable to do office work, the substitution of thirty-five reasonably large freehand sketches, rendered in any desired medium, would be considered an equivalent.

## Department of Chemistry.

PROFESSOR:—J. WALLACE WALKER,
ASSOCIATE PROFESSORS:—NEVIL NORTON EVANS, DOUGLAS MCINTOSH,
ASSISTANT PROFESSOR:—F. M. G. JOHNSON.
DEMONSTRATORS:—V. J. HARDING, V. K. KRIEBLE, W. BUELL MELDRUM, H. W. MATHESON, J. NICOLLS.

SECOND YEAR LECTURES.

51. *General Chemistry.*—An introductory course in descriptive and theoretical chemistry. The fundamental laws and theories are studied in conjunction with a detailed description of the preparation, properties and industrial applications of the more important elements and their compounds. Three hours a week. Mr. Evans.

Text-Book:—Alex. Smith's General Chemistry for Colleges.

54. *Inorganic Qualitative Analysis.*—A course explanatory of the work done in the laboratory (course 55). One lecture a week in the second term. Mr. Evans.

For reference:—Treadwell's Qualitative Analysis.

SECOND YEAR LABORATORY.

52. *General Chemistry.*—In this course the student is taught the construction and use of ordinary apparatus and performs a series of experiments designed to cultivate the powers of observation and deduction. Many of these experiments involve accurate weighing. Considerable attention is also devoted to the subject of qualitative analysis. One period a week for all students of Engineering.

53. *General Chemistry.*—An extensive course illustrating the methods adopted in establishing the fundamental laws and in the preparation and purification of inorganic chemicals. Five periods a week in the first term for students of Chemistry and Metallurgy.

55. *Inorganic Qualitative Analysis.*—A complete course. Five periods a week in the second term, or (for Chemical and Metallurgical Engineers) its equivalent in the summer school.

Text-Book:—A. A. Noyes' Qualitative Chemical Analysis.

THIRD YEAR LECTURES.

56. *Organic Chemistry.*—Three lectures a week during the first term. Dr. Walker.

Text-Book:—Holleman's Organic Chemistry, or Remsen's Organic Chemistry.

58. *Physical Chemistry.*—An introductory course following the development of chemical theory, including vapour densities, molecular weights, the mass law and the phase rule. Two lectures a week during the second term. Dr. Johnson.

Text-Book:—Walker's Introduction to Physical Chemistry.

59. *Inorganic Qualitative Analysis.*—A course explanatory of the work done in the laboratory. One lecture a week in the second term for Mining Engineers only. Mr. Evans.

Text-Book:—A. A. Noyes' Qualitative Chemical Analysis.

61. *Inorganic Quantitative Analysis.*—A course on the general principles involved in quantitative analysis. One lecture a week during the first term. Dr. Johnson.

For reference:—Treadwell's Quantitative Analysis.

THIRD YEAR LABORATORY.

57. *Organic Chemistry.*—A course on the preparation, detection and analysis of the commonest organic compounds. Two periods a week in the first term.

Text-Book:—

60. *Inorganic Qualitative Analysis.*—A course adapted to the requirements of Mining Engineers. Two periods a week in the second term.

62. *Inorganic Quantitative Analysis.*—An extensive course on gravimetric and volumetric methods, including gas analysis.

Text-Book:—Clowes and Coleman, Quantitative Analysis, 8th Edition.

63. *Applied Electro-Chemistry.*—An introductory course preparatory to the study of electro-chemistry and electro-metallurgy of the fourth year. One period a week for students of Electrical Engineering only.

65. *Mineral Analysis.*—A more extended course than 71.

FOURTH YEAR.

66. *Organic Chemistry.*—A systematic course, comprising two lectures and six laboratory periods a week. Dr. Walker.

Text-Book:—Wade's Introduction to the Study of Organic Chemistry.

67. *Physical Chemistry.*—The lectures, which are a continuation of those given during the third year, include the kinetic theory, thermo-chemistry, the principles of thermo-dynamics as applied to chemical action, osmotic phenomena and their application in deducing the ionisation theory of

solutions, a study of such physical properties of gases, liquids and solids as are known to depend on their chemical constitution, and electro-chemistry. Two lectures and two laboratory periods a week in the first term, two lectures and one laboratory period a week in the second term. Dr. McIntosh.

Text-Book:—Findlay's Physico-chemical Measurements.

For reference:—Ramsay's Text-Books of Physical Chemistry.

68. *Inorganic Quantitative Analysis.*—The lectures deal with the special methods of analysis of iron and steel, alloys and water. One lecture a week in the second term.

Dr. Johnson.

The laboratory work is a continuation of courses 61 and 62 and is adapted both in extent and in subject matter to the needs of individual students, various other courses being allowed as partial alternatives.

For reference:—Furman, Manual of Practical Assaying: Blair, Chemical Analysis of Iron; Brearley and Ibbotson, Analysis of Steel Works Materials.

69. *Industrial Chemistry.*—An extensive course on the leading chemical industries. Two lectures a week.

Dr. Walker and Mr. Evans.

70. *Applied Electro-Chemistry.*—The laws of electrolysis and of solutions are studied from the stand-point of the osmotic theory, also primary and secondary batteries, electroplating, polarisation and the preparation and electrochemical behaviour of the rarer elements used in incandescent lamps. The most important technical processes are studied and typical substances prepared in the laboratory. Two lectures and one laboratory period in the second term.

Dr. McIntosh.

For reference:—Le Blanc, Elements of Electro-Chemistry; Blount, Practical Electro-Chemistry.

71. *Mineral Analysis.*—A laboratory course specially designed for Mining Engineers. Four periods a week in the first term.

For reference:—Furman, Manual of Practical Assaying.

## Department of Civil Engineering and Applied Mechanics.

PROFESSORS:—{ H. M. MACKAY. / E. BROWN.

ASSISTANT PROFESSORS:—{ C. BATHO. / H. M. LAMB.

LECTURER:—W. S. LEA.

DEMONSTRATORS:—{ ———— / R. S. L. WILSON.

81. *Materials of Construction.*—Manufacture and properties of cast iron, wrought iron, crucible, bessemer and open hearth steel; principal alloys; considerations governing selection of materials; manufacture and properties of Portland and natural cements; limes; concrete; stone and brick masonry; principal kinds of timber used for engineering purposes; preservation of timber; discussion of standard specifications.

Required of all Engineering students in the second year.

Ont hour per week. Prof. MacKay.

82. *Graphical Statics.* — Composition of forces; general methods involving the use of funicular and force polygons; determination of reactions, centres of gravity, bending moments and moments of resistance; stresses in cranes, braced towers, roof trusses and bridge trusses.

Required of all Engineering students.

Three hours per week, second term of second year. Mr. Lamb, Mr. Wilson, Mr. Lea.

83. *Mechanics.*—The course includes the general principles of statics, and of the dynamics of a particle. Motion of a particle under varying force is considered and a knowledge of both differential and integral calculus is essential. Simple harmonic motion is considered (taking the oscillation of springs and pendulums in illustration), and numerous applications of the principles dealt with are worked out.

Three lectures per week, second term of second year.

Prof. Brown, Mr. Batho and ——.

Text Book:—Morley, Mechanics for Engineers.

86. *Mechanics.*—The work of the second year course in mechanics is extended, and the dynamical equations for the motion of a rigid body in two dimensions are deduced. Numerous examples are worked in detail, including problems on flywheels, kinetic energy of bodies having translation and rotation, oscillation of a rigid body about a fixed axis of suspen-

sion, impulsive forces, etc. The elementary principles of hydrostatics are also considered.

Two lectures per week, first term of third year.

Prof. Brown and Mr. Batho.

Text Book:—Morley, Mechanics for Engineers.

87. *Strength of Materials.*—This course deals with the fundamental principles of the strength of materials. It includes the following:—Stress, strain, resilience, and the elastic properties of materials used in construction; bending moment and shearing force diagrams; strength curvature and deflection of beams; continuous beams; cantilever beams and the like; simple problems on rolling loads; reinforced concrete beams; the strength of shafting; spiral springs; bending combined with tension or compression; elementary consideration of compound stresses; distribution of shearing stress on various sections, etc.

Required of all Engineering students.

Two lectures per week during session, third year.

Prof. Brown, Mr. Batho and Mr. Lamb.

Text Book:—Morley, Strength of Materials.

88. *Strength of Materials Laboratory.*—The work is arranged to illustrate the principles of the lecture course in strength of materials (87), and includes the following:—Tension tests of various materials in 100 ton and 30 ton testing machines; determination of stress-strain diagrams by automatic recorders and by extensometers and scales; deflection of beams, wood and metal; torsion of shafts; deflection and vibration of spiral springs, and torsional oscillations of wires; the moment of inertia of flywheels by oscillation and falling weight tests; determination of Young's modulus for various materials; complete tests of Portland cement; efficiency of chain blocks; experiments on tension and twisting of wires; bending combined with torsion as in shafting; together with demonstrations on the large testing machines of tensile tests of various materials, the breaking of timber and reinforced concrete beams and small columns, the compressive strength of concretes, bricks, mortars, etc.

Three hours per week, second term of third year.

Prof. Brown and assistant staff.

89. *Foundations and Masonry.*—Borings; bearing power of soils; piles and pile driving; concrete piles; footings; grillages; underpinning; foundations under water; coffer dam, open dredging, pneumatic and freezing processes; estimation of quantities from drawings; estimates of cost.

Required of students in Course IV.

Four hours per week, first term of third year.

Prof. MacKay, Mr. Lamb, Mr. Wilson.

Reference Books:—Baker's Masonry Construction; Fowler's Ordinary Foundations.

90. *Structural Engineering.* — Problems in the design of beams, plate girders, columns, roof trusses, knee bracing, etc.; working drawings; reinforced concrete; estimates of quantities; estimates of cost.

Required of students in Courses III, IV, VI, VII, IX and X.

Four hours per week, second term of third year.

Mr. Lamb and Mr. Wilson.

Reference Books:—Ketchum's Mill Building Construction; Freitag's Architectural Engineering; Cambria Steel.

94. *Theory of Structures.*—(With Strength of Materials). —This course for fourth year students includes some more advanced work on strength of materials than that covered in the third year course in that subject, but deals principally with the application of graphical and analytical methods to the determination of the stresses in framed structures generally, such as bridge and roof trusses; two-hinged and three-hinged braced arches; the stresses in an arch rib with ends hinged and with ends fixed; general problems in deflection of beams and trusses; concentrated loading on continuous spans, and its application to swing bridges; the principle of least work as applied to statically indeterminate problems; earthwork theories and their application to retaining walls; suspension bridges, etc. In the drafting room a series of problems will be worked out illustrating the topics dealt with in the lectures.

Required of Civil Engineering students in the fourth year.

Three lecture hours and one drafting room period per week.

Prof. MacKay, Prof. Brown.

Reference Books:—Merriman and Jacoby,—Roofs and Bridges; Bovey,—Theory of Structures.

95. *Reinforced Concrete.*—The analysis of reinforced concrete beams accompanied by laboratory tests; the design of reinforced arches, retaining walls, bins, etc.

Six hours per week, second term.

Prof. MacKay, Prof. Brown.

96. *Bridge Design.*—The reasons governing the selection of a particular type of bridge; discussion of the loads to which the bridge will be subjected; calculation of the stress in the several members; determination of the sectional areas and

forms of the members; design of the connections; preparation of complete drawings.

Required of fourth year students in Civil Engineering.

Eight hours per week.

Prof. MacKay, Mr. Lamb, Mr. Wilson.

Reference Books:—Merriman and Jacoby's Roofs and Bridges; Bovey's Theory of Structures; Johnson Bryan and Turneaure's Modern Framed Structures; Ketchum's Highway Bridges; Thomson's Typical Steel Railway Bridges; Waddell's De Pontibus.

97. *Hydraulics.*—The fundamental principles of hydraulics are considered, and applied to problems on the discharge of orifices, notches, weirs, pipes and open channels under varying conditions; the theory of impact of jets and its application to turbines is also dealt with. Required of Civil and Mechanical students of the fourth year; alternative course for Electrical and Mining students of the fourth year.

Two hours per week, first term.

Prof. Brown.

Text-Book:—Hydraulics and its Applications—Gibson.

98. *Hydraulic Laboratory.*—The course is illustrative of the principles considered in Course 97, and is taken concurrently. The work includes the following experiments:—Measurement of discharge from orifices, notches and pipes, both straight and bent, to determine hydraulic coefficients; pressure of jets impinging on vanes; tests of Venturi meter, hydraulic ram, Pelton wheel, Girard impulse turbine, Brotherhood reciprocating motor, etc.

Three hours per week, first term.

Prof. Brown and assistant staff.

99. *Hydraulic Machines.*—The course includes the application of the principles of hydraulics to the determination of formulae for the design of turbines and centrifugal pumps. Examples are worked showing the methods of finding the leading dimensions of different types of such machines, and representative machines, methods of regulation, etc., are considered in detail. The transmission of power by hydraulic pressure is also considered, and the functions of the accumulator are dealt with along with the influence of inertia forces in the operation of such machines as reciprocating motors, pumps, riveters, etc.

Two hours per week, second term.

Prof. Brown.

Text-Book:—Hydraulics and its Applications—Gibson.

101. *Hydraulics and Laboratory.*—A short course embodying the hydraulic principles outlined under Courses 97 and 98 will be given in the first term. There will be one lecture per week, and four or five laboratory periods at hours to be arranged. Required of Metallurgical and Chemical Engineering students of the fourth year; alternative course for Mining students of the fourth year.

Mr.Lea.

Text-Book:—Hoskins—Text-book on Hydraulics.

91. *Municipal Engineering.*

(*a*) *Sewage of Cities and Towns.*—The various systems for the removal of sewage; special methods in use for its treatment and ultimate disposal; the proportioning and construction of main, branch and intercepting sewers; inverted syphons and submerged outlets; manholes, flush tanks, catch basins, storm water overflows, etc.; field and office work in connection with preliminary surveys, design, estimates of cost, construction, record plans and management; materials used in construction.

(*b*) *Roads and Pavements.*—Methods of construction; cost; durability and desirability of the various kinds of pavements; grades and cross sections; methods of assessments of costs; methods of maintenance and cleaning.

Required of Civil Engineering students in the third year. One hour per week. Mr. Lea.

100. *Water Supply.*—The quantity and quality of water: rainfall and evaporation; storage as related to the supplying capacity of watersheds; combined and separate fire and domestic systems with reference to their requirements as factors in the selection of sources of supply; works for the collection, storage and carriage of water to the point of distribution; natural and artificial purification; the distribution system with location of mains, hydrants, valves, blow-offs, etc.; field and office work in connection with design, estimates of cost, construction, record plans and management.

Required of Civil Engineering students in the fourth year. Two hours per week, second term. Mr. Lea.

105. *Advanced Courses.*—Provision will be made if a sufficient number of properly prepared students present themselves for more advanced courses of lectures. During the session 1910-1911 a course was given on "The determination of secondary stresses in bridge trusses."

## Department of Descriptive Geometry and Freehand Drawing.

PROFESSOR:—C. H. McLEOD.

ASSOCIATE PROFESSOR:— H. F ARMSTRONG.

ASSISTANT PROFESSOR:—J. B. HARVEY.

DEMONSTRATORS:—

This course deals with the methods of representing objects on one plane so that their true dimensions may be accurately scaled. It discusses the methods employed in the graphical solution of the various problems arising in engineering design, and deals generally with the principles underlying all constructive drawing. The methods taught are illustrated by applications to practical problems. It is the aim of the work to develop the imagination in respect to the power of mentally picturing unseen objects, and, incidentally, precision in the use of the drawing instruments is attained.

341. FIRST YEAR. — Geometrical drawing; problems on straight line and plane; projections of plane and solid figures; curved surfaces and tangent planes; intersections of surfaces; axometric projections; shades and shadows. Mr. Armstrong.
Text Books:—Geometrical Drawing by C. H. McLeod; McLeod's Elementary Descriptive Geometry.

351. THIRD YEAR.—First Term: Mathematical perspective and perspective of shadows, etc.; photographic surveying. Second Term: Graphical determination of spherical triangles; spherical projections and the construction of maps. Mr. Harvey.

342. In the *Freehand Drawing Course,* the object is to train the hand and eye so that students may readily make sketches from parts of machinery, etc., either as note book sketches, diagrams, perspective drawings in light and shade, or as preparatory dimensioned sketches from which to make scale drawings. Mr. Armstrong.

343. In the *Lettering Course,* plain block alphabets, round writing, and titles, such as are chiefly in use in draughting offices will be dealt with. In this course, also, tinting, tracing blue printing and simple map drawing will be included.
Mr. Armstrong.

## Department of Electrical Engineering.

PROFESSOR:—L. A. HERDT.
ASSISTANT PROFESSORS:— C. V CHRISTIE. A. M. GRAY.
SPECIAL LECTURER:— E GODFREY BURR.
SENIOR DEMONSTRATOR:—J. H. TRIMINGHAM.
DEMONSTRATORS:— A. G. L. MCNAUGHTON.

113. *Electrical Engineering.*—The theoretical consideration of current flow in circuits of different kinds with constant and variable electro-motive force applied; the laws of electro-magnetism and of the magnetic circuit; the theory and operating characteristics of commutating and rectifying machinery; the principles of alternating current machinery. Required of all students in Electrical Engineering in their third year.

Two hours per week. Mr. Christie.

117. *Electrical Engineering* (A.C. and A.C. Machinery).—The treatment of alternating current circuits by vector diagrams and complex quantities; the theory and operating characteristics of alternating current machinery. Required of all students in Electrical Engineering in their fourth year. Must be preceded by course 113.

Three hours per week. Mr. Christie.

Text Book:— Theoretical Elements of Electrical Engineering, C. P. Steinmetz.

120. *Electric Lighting and Power Distribution.*—The design and operation of central and isolated lighting and power plants; the design and construction of distributing and transmission lines; arc and incandescent lighting; the appliances of stationary motors to general power purposes; power plant design, high tension power transmission, overhead and underground distribution. Required of all students in Electrical Engineering in their fourth year. Must be preceded by course 113.

Two hours per week.—Dr. Herdt. Second term.

Text Book:—Standard Handbook for Electrical Engineers.

121. *Electric Traction.*—Determination of the power required to accelerate and draw, at different speeds, loads under varying track and other conditions; car equipment as affected by nature of service; track construction; systems of distribution for urban and for heavy through traffic conditions. Required of all students in Electrical Engineering in their fourth year. Must be preceded by course 113.

Two hours per week.—Dr. Herdt. First term.

Text Book:—Standard Handbook for Electrical Engineers. Students are furnished with supplementary notes.

122. *Electrical Designing.*—Properties of materials used in electrical apparatus, electrical design of rheostats, transformers, D.C. and A.C. generators and motors. Two hours per week. Mr. Gray.

Four hours per week in drawing room. MSS. notes and data. Mr. Gray.

*Electrical Engineering Laboratory.*

114. Includes such tests of direct current metering and controlling devices, generators, motors, boosters, motor generators, constant current machines and arc and incandescent lamps as illustrate the principles of their action and the limits of their proper use. Required of all students in Electrical Engineering in their third year. Must be taken in conjunction with or preceded by course 113.

Six hours per week. First and second terms.

Students are furnished with special laboratory notes and forms.

118. Includes experiments on variable current flow in circuits of different kinds; tests of alternators, synchronous motors and converters, compensators, induction motors, transformers, frequency and phase changing apparatus, potential regulators, reaction coils, etc. Required of all students in Electrical Engineering in their fourth year. Must be preceded by course 113, and taken in conjunction with course 117.

Nine hours per week. First and second terms.

Students are furnished with special laboratory notes and forms.

111. *Elements of Electrical Engineering* for third year students in Mechanical Engineering and fourth year students in Civil and Mining Engineering and Transportation.

A general course in electrical engineering, treating of the laws of electro-magnetism; continuous and alternating current flow in various circuits; characteristics of direct and alternating current machinery; the fundamental principles of electric lighting and power distribution and electric traction.

Two hours per week.—Mr. Gray. First and second terms.

Text Book: MSS. notes and data.

112. *Electrical Engineering Laboratory* for third year students in Mechanical Engineering and fourth year students in Civil and Mining Engineering and Transportation.

Includes tests of direct current metering and controlling devices, dynamos, motors, boosters, motor generators and constant current machines; experiments of variable current flow in circuits of different kinds; tests of alternators, synchronous motors and converters, induction motors and transformers.

Three hours per week (one-half class).—First and second terms.

Text Books:—Testing of Dynamos and Motors, Chas. F. Smith; Practical Alternating Current Testing, Chas. F. Smith.

119. *Electrical Engineering Laboratory* for fourth year students in Mechanical Engineering. Includes tests of alternators, synchronous motors and converters and experiments on variable current flow in circuits of different kinds.

Two hours per week, first term.

## English Composition.

LECTURER:—G. W. LATHAM.

131. In view of the importance of accuracy of expression in the case of those engaged in scientific or professional work, a course on English composition is prescribed for all undergraduates of the first year. Students who give evidence of having already reached the required standard of proficiency, by passing a special exemption examination, may be excused from attendance on this course. This special examination will be held in the Molson Hall on Saturday, September 30th at 11 o'clock.

Students who are required to take this Course will be assigned to a section which will meet weekly for practice and instruction in composition.

Satisfactory results in class and essay work must be obtained before entry into the second year. All undergraduates of the first year, whether exempt or not from attendance on the course, must pass the final examination.

132. *Summer Reading.* (See page 61.)

135. English. (Dep't. of Railways. See page 108.)

138. English. (Dep't. of Railways. See page 110.)

## Department of Geology and Mineralogy.

PROFESSOR:—F. D. ADAMS.

ASSISTANT PROFESSORS:—J. AUSTEN BANCROFT. R. P. D. GRAHAM.

LECTURER:—JOHN STANSFIELD.

SESSIONAL LECTURER:—ALFRED E. BARLOW.

The courses are arranged as follows:—

Third Year.

141. *General Geology.*—The lectures will embrace a general survey of the whole field of geology, and will be introduced by a short course on mineralogy. Especial attention will be devoted to dynamical geology and to historical geology, including a description of the fauna and flora of the earth during the successive periods of its past history, as well as to the economic aspects of the subject.

The lectures will be illustrated by the extensive collections in the Peter Redpath Museum, as well as by models, maps, sections and lantern slides. In addition to the lectures there will be a demonstration each week.

Dr. Adams.

Text Book:—Scott, An Introduction to Geology.

142. *Mineralogy.*—The lectures and demonstrations, illustrated by specimens and models, deal mainly with the description and means of identification of species, special attention being paid to the ores and economic minerals and to those which are important as rock constituents. The earlier lectures are devoted to a brief discussion of the geometrical and physical properties of minerals; their chemical composition; calculation of formulæ, etc.; and the principles of classification.

Mr. Graham.

143. *Determinative Mineralogy.*—Laboratory practice in blow-pipe analysis and its application to the determination of mineral species. Mr. Graham and Mr. Stansfield.

Fourth Year.

146. *Petrography.*—The modern methods of study employed in petrography are first described, and the classification and description of rocks is then taken up.

In addition to the lectures, one afternoon a week during the second term will be devoted to practical work in the petrographical laboratory.

Dr. Bancroft, Mr. Graham and Mr. Stansfield.

147. *Advanced Petrography.*—This is a more advanced course than 146. In addition to the lectures an afternoon throughout the year will be devoted to practical work in the petrogaphical laboratory.

Text Book:—Harker's Petrology for Students.

Dr. Bancroft and Mr. Stansfield.

*Petrographical Laboratory.*—This laboratory is open to fourth year Mining students.

148. *Ore Deposits and Economic Geology.*—The nature, mode of occurrence and classification of ore deposits will first be taken up. A series of typical occurrences will then be described and their origin discussed. The more important non-metallic materials *e.g.*, fuels, clays, abrasive materials, building stones, etc., will be similarly treated as well as questions of water supply, artesian wells, etc. The structure of the earth's crust, more especially with reference to folding, faulting and igneous intrusion in their bearing upon mining will then be considered and the course will close with a discussion of the methods employed in carrying out geological and magnetic surveys, and in the construction and interpretation of geological maps and sections.

The course will be illustrated by maps, models, lantern slides and specimens.

Text Books:—Geikie, Outlines of Field Geology; Kemp, Ore Deposits of the United States and Canada; Phillips and Louis, A Treatise on Ore Deposits; Beck and Weed, The Origin and Nature of Ore Deposits.

Dr. Adams.

Books of Reference:—The Reports of the Geological Survey of Canada, and the Publications of the U. S. Geological Survey.

149. *Geology of Canada.*—A general description of the geology and mineral resources of the Dominion.

Dr. Bancroft.

150. *Physical Geography and Climatology.*—Geographical subdivisions of Canada; mineral areas; timber belts; wheat areas and water powers; irrigation; climatology and its relations to occupations and soil products.

This is a special course provided for the fourth year students in the Department of Railways. It will be illustrated by maps, models and lantern slides.

Dr. Bancroft.

151. *Crystallography.*—A short course of lectures for students in chemistry, with laboratory practice in the measurement and drawing of crystals; calculation of axial ratios, etc.; use of the polarising microscope, axial angle apparatus, etc. Mr. Graham.

152. *Historical Geology.*—This is a continuation of course 141, and will consist of lectures, colloquia and museum work extending throughout the session. Dr. Bancroft.

153. *Field Work.*—The students in mining will receive a course of instruction in geological mapping and field work—extending over one week—in connection with the summer school of mining. Dr .Bancroft and Mr. Graham.

154. *Field Work.*—During the ten days immediately preceding the opening of the fall term, a special course in the field methods employed in a geological survey will be given for those students who elect the geological option in the fourth year of the Mining course. Dr. Bancroft and Mr. Graham.

NOTE.—Students of the Mining and Chemistry courses take all the mineralogy of the third year. Chemistry students, in addition to the geology of the third year, may take the mineralogy of the fourth year.

## Law and Economics.

PROFESSOR OF LAW:—F. P. WALTON.
PROFESSOR OF ECONOMICS:—S. B. LEACOCK.
ASSISTANT PROFESSOR OF ECONOMICS:—J. C. HEMMEON.
LECTURER IN ENGINEERING ECONOMICS:—F. BAYLIS BROWN.

171. *Engineering Economics.*—This course is intended to familiarise the engineering student with the business aspect of his profession. With this in view, lectures will be given on the subjects of barter and sale; money and credit; the formation, organization and financing of companies; analysis of balance sheet; operating and fixed charges; estimates; specifications and contracts. Mr. Brown.

172. *Economics.*—(Department of Railways. See p. 108.) Dr. Leacock.

175. *Engineering Law.*—This course is intended to present such an outline of the law as will be useful to engineers and

business men. Among the main topics may be mentioned the general law of contracts; the law of the architect and builder; the statutes affecting labour; commercial paper; sale; lease; agency and partnership; joint stock companies; insurance; carriers by land and sea. Dr. Walton.

176. *Railway Law.*—(Department of Railways. See p. 111.) Dr. Walton.

177. *Railway Economics.*—(Department of Railways. See p. 109.) Dr. Hemmeon.

## Department of Mathematics.

PROFESSOR:—D. A MURRAY.

ASSISTANT PROFESSOR:—T. RIDLER DAVIES.

LECTURERS:—C. BATHO. R. D. FULLERTON. J. B. MABON. C. A. MILBURN. R. S. L. WILSON.

191. *Geometry.*—Exercises in plane geometry, elements of solid geometry and of geometrical conic sections. First year (first term). Text Book:—Wilson's Solid Geometry and Conic Sections (Macmillan). Messrs. Davies, Fullerton, Mabon, Milburn, Wilson.

192. *Algebra.*—Miscellaneous theorems and exercises, exponential and other series, properties and solution of higher equations, complex numbers and vector algebra, graphical algebra with an introduction to analytic geometry, indeterminate forms, limits, derivatives, slopes of curves. First Year (first and second terms). Text Books:—Rietz and Crathorne's College Algebra (Holt & Co.), Tanner and Allen's Analytic Geometry (American Book Co.). Prof. Murray, Messrs. Fullerton, Mabon, Milburn, Wilson.

193. *Trigonometry.*—Plane and spherical. First Year (second term). Text Book:—Murray's Plane and Spherical Trigonometry, with tables (Longmans). Messrs. Davies, Fullerton, Mabon, Milburn, Wilson.

194. *Mechanics.*—An elementary course in dynamics, statics, and hydrostatics. First year (first and second terms). Text Book:—Loney's Mechanics and Hydrostatics for Beginners (Cambridge University Press). Messrs. Batho, Fullerton, Mabon, Milburn.

197. *Analytic Geometry.*—The point, straight line, circle parabola, ellipse and hyperbola, elements of geometry of three dimensions. First year (latter part of second term), and second year (first term). The second year work begins with the circle. Text Book:—Tanner and Allen's Analytic Geometry (American Book Co.). Prof. Murray, Messrs. Fullerton, Mabon, Milburn.

198. *Calculus.*—Differentiation of functions of one or more variables, successive differentiation, tangents, etc., curvature, maxima and minima, integration, with applications to areas, volumes, moments of inertia, etc. Second year (first and second terms). Text Book:—Murray's Differential and Integral Calculus (Longmans). Prof. Murray, Messrs. Fullerton, Mabon, Milburn.

201. *Calculus.*—Elementary differential equations. Prescribed for Electrical Engineering students of the third year; optional for all others. (First and second terms). Prof. Murray.

82, 86. *Mechanics.*—For courses in second and third year mechanics, see CIVIL ENGINEERING and APPLIED MECHANICS, page 74.

## Department of Mechanical Engineering.

PROFESSOR:—R. J. DURLEY.

ASSISTANT PROFESSORS—C. M. MCKERGOW. A. R. ROBERTS.

LECTURERS:—J. BLIZARD. G. L. GUILLET.

DEMONSTRATORS:—_____ _____

SHOP INSTRUCTORS:—G. WOOLEY. J. STEWART. H LANE. A. W. MILLER.

FIRST YEAR.

211. *Mechanical Drawing and Designing.*—Elementary principles of mechanical drawing and draftsmanship; preparation of working drawings and tracings of simple machine details. In connection with this work a brief course of lectures is given upon drafting room methods and standards, and the elementary considerations in the design and construction of, and selection of materials for, simple machine parts.

Required of all Engineering students. Three hours per week. Mr. Roberts and assistants.

*Shopwork.*—The course in shopwork is intended to afford some preparation for that study of workshop practice on a commercial scale which every engineer has to carry out for himself. With this end in view, the student works in the various shops of the department, and completes in each a series of practical exercises. He thus obtains some knowledge of the nature and properties of the various materials he employs; he receives systematic instruction in the use and care of the more important hand and machine tools; and he acquires some manual skill.

The instruction thus obtained must, however, be continued and supplemented. *For this purpose students are expected to spend the greater portion of each long vacation in gaining practical experience in engineering workshops outside the University.*

Students are required to read and make notes of selected portions of certain text-books and articles in technical journals, illustrative of the work done in each shop.

The practical work is supplemented by a brief course of lectures dealing with shop processes and tools. The subject dealt with in this way gives the student a clearer idea of the care and use of the various instruments and tools, and of the performance of the machines.

In connection with his shopwork each student is required to keep a record of his work. These records or notes are made on standard forms. These are handed in to the Shop Instructor at the close of each period of work, and, together with diligence and the results of a brief written examination, form the basis on which credit for shopwork is assigned.

Required of all Engineering students. Six hours per week.

212. *Carpentry and Wood-turning.*—Sharpening and care of wood-working tools; sawing, planing and paring to size; preparation of flat surfaces, parallel strips, and rectangular blocks; construction of the principal joints employed in carpentry and joiner work, such as end and middle lap joints, end and middle mortise and tenon joints, mitres, dado and sash joints; dovetailing; scarfing; joints used in roof and girder work; wood-turning; use of wood-turning tools. Mr. Wooley.

213. *Smith-Work.*—The forge and its tools; use and care of smiths' tools; management of fire; use of anvil and swage-block; drawing taper, square and parallel work; bending, upsetting, twisting, punching, and cutting; welding and scarfing. Mr. Stewart.

214. *Foundry-Work.*—Moulders' tools and materials used in foundry work; the cupola; the brass furnace; preparation of moulding sand; boxes and flasks; core-making; use of core-irons; bench moulding; blackening, coring and finishing moulds; vents, gates and risers; floor moulding; open sand work; melting and pouring metal; mixtures for iron and brass casting. Mr. Lane.

SECOND YEAR.

218. *Mechanics of Machines.*—Kinematics of Machines.—Constrained motion; kinematic pairing; velocity and acceleration in mechanisms; centrodes; analysis and classification of simple mechanisms, including the quadric crank chain, the slider crank chain and various wheel trains; design of involute and of cycloidal wheel-teeth.

Dynamics of Machines.—Work and power; the power and turning effort of prime movers; inertia and kinetic energy of revolving and reciprocating parts of machines. Required of all Engineering students. Three hours per week. Mr. McKergow.

Text Book:—Durley's Kinematics of Machines (Wiley).

Reference Book:—Kennedy, Mechanics of Machinery (MacMillan).

219. *Mechanical Drawing.*

Drafting and tracing of more difficult exercises; and the making of assembly and detail drawings of machine parts. Lectures are given from time to time during the course dealing with drafting room methods, explanation of designs, and discussion of the reasons for selection of materials.

Required of all Engineering students. Three hours per week. Mr. Roberts and assistants.

220. *Machine-shop Work.*—Exercises in chipping; preparation of flat surfaces; filing to straight edge and surface plate, scraping, screwing and tapping; use of scribing block and surface gauge; marking off work for lathes and other machines; turning and boring cylindrical work to gauge; surfacing; screw-cutting and preparation of screw-cutting tools; machining flat and curved surfaces on the planing and shaping machines; drilling and boring; cutting angles and speeds; dressing and grinding tools.

Required of all Engineering students. Three hours per week. Mr. Miller.

THIRD YEAR.

224. *Mechanics of Machines.*—Mechanisms involving chamber crank trains and chamber wheel trains; helical, skew, and worm gearing; relative motion and displacement; the mechanism of the simple slide valve and of expansion valves; solution of valve setting problems; the function and dynamics of engine fly-wheels and governors; elements of engine balancing; friction and lubrication.

Required of students in Mechanical and Electrical Engineering. Two hours per week. Mr. Blizard.

Text Books:—Durley's Kinematics of Machines (Wiley); Ewing's Steam Engine (Camb. Univ. Press).

225. *Machine Design.*—Principles of the strength of materials as applied to the design of the parts of machines; fastenings used in machine construction, bolts, screws, keys, cotters, rivets, and rivetted joints; journals and bearings; shafts and couplings.

Required of students in Mechanical and Electrical Engineering. Two hours per week. Mr. Roberts.

Text Book:—Spooner's Machine Design (Longmans).

Book of Reference:—Unwin's Machine Design, Part I (Longmans).

*Mechanical Engineering.*

226. (A) General course in Mechanical Engineering of Power Plants and Prime Movers.

Fuel and combustion, steam boilers and steam production; corrosion and defects of boilers; boiler plants and accessories, principles of selection and arrangement; the steam engine—estimation of power developed, economy of steam machinery; the indicator; condensers, pumps and accessories; steam turbines; principles of design in steam plants; gas engines and gas producer plants, their selection, economy and arrangement; general conditions governing location and design of power installations.

Required of all Engineering students except those in Mechanical Engineering. Two hours per week. Prof. Durley.

Text Books:—Meyer, Steam Power Plants (McGraw), Duncan, Steam and other Engines (Macmillan).

227. (B) Fuel and combustion; steam boilers and steam production; boiler installation and operation; the indicator; the steam engine, steam distribution and economy; steam turbines; condensers and auxiliary machinery in steam plants; gas engines and gas producer plants; compressed air and refrigerating machinery.

Required of all students in Mechanical Engineering. Three hours per week. Mr. Blizard.

Text Book:—Ripper, Heat Engines, (Longmans).

228. *Mechanical Engineering Laboratory.* — Testing and calibration of indicators, brakes and other measuring instruments: investigation of the operation of brakes, dynamometers, and governors; tests to determine the efficiency of belt and other transmission gearing, the properties of lubricants, the economy and performance of a steam engine and boiler, of a gas engine, of an air-compressor, and of a pump.

Required of all Engineering students, except those taking the Electrical Engineering Course. Three hours per week. Mr. McKergow and assistants.

Reference Book:—Carpenter, Experimental Engineering.

223. *Mechanical Engineering Laboratory.*

First Term.—Course same as 228.

Second Term.—Experimental work on the relative value of throttling and expansion governors; effect on the economy of steam engine of changing from simple to compound, triple, and quadruple expansion; the testing of steam boilers, producer gas engines, air compressors, and a complete steam power plant test.

Required of students in Electrical Engineering. Six hours per week. Mr. McKergow and assistants.

Reference Book:—Carpenter, Experimental Engineering.

229. *Thermodynamics.*—Fundamental laws and equations of thermodynamics; their application to gases and to vapours, saturated and superheated; efficiency of ideal heat engines; properties of steam, and elementary theory of the steam engine; elementary theory of gas and hot air engines.

Required of students in Mechanical and Electrical Engineering. Two hours per week. Mr. Roberts.

Text Book:—Ewing—The Steam Engine and Other Heat Engines—(Camb. Univ. Press); Marks and Davis, Steam Tables.

Reference Book:—Ennis, Thermodynamics applied to Engineering.

230. *Mechanical Drawing.*—Exercises in making sketches of machine parts and in preparing working drawings and tracings from them. Nine hours per week during summer term after conclusion of second year session.

Required of Electrical and Mechanical Engineering students. Mr. Roberts and assistants

231. *Mechanical Drawing.*—This course is supplementary to the course in machine design and consists of exercises in design and draughting of fastenings, machine parts and simple machines. Required of Mechanical Engineering students. Six hours per week for first term and three hours per week for second term. Mr. Roberts and assistants.

232. *Mechanical Drawing.*—A course similar to 231, but less extended. Required of Electrical Engineering students. Three hours per week. Mr. Roberts and assistants.

233. *Smith Work.*—Tool forging and tempering, using carbon and high-speed steels; making lathe and planer tools; taps, dies, drills, and tools for the forge; special welding. Eleven hours per week for half the summer term, after the conclusion of second year session. Required of Electrical and Mechanical Engineering students. Mr. Stewart.

234. *Foundry Work.*—Moulds requiring a higher degree of skill and judgment than elementary course; special methods of strengthening the mould; coating for smooth surfaces on castings; methods of avoiding defects; cupola charging and operating; core mixtures and core making; coring moulds. For same period as 233. Required of Electrical and Mechanical Engineering students. Mr. Lane.

In connection with 233 and 234 visits are made by the class under the guidance of the instructors to local manufacturing works.

235. *Pattern Making.*—Use of pattern-makers' tools; elements of pattern-making; allowances to be made for draught and for contraction in moulding and casting; use of contraction rule; preparation of prints and plain core-boxes; exercises in paring and turning; construction of patterns and core boxes for pipes, flanges, elbows, tees and valves; more difficult exercises in pattern-making, including built-up patterns and face-plate work; gear and wheel patterns.

Required of students in Mechanical Engineering. Three hours per week for half the session. Mr. Wooley.

236. *Machine Shop.*—Lathe work; marking off; centering; turning and boring; radial facing; filing; grinding and polishing; internal and external screw cutting; change gear calculations; taper turning and bench work.

Required of students in Mechanical Engineering. Three hours per week for half the session. Mr. Miller.

237. *Shop Processes and Management.*—Factors of economic production by machine tools; limits of time, power and cost; standardization of parts; selection of economic cutting

conditions; requirements for accurate and interchangeable work; economic movement of material in factory, economic production in the foundry and smith shop; co-ordination of various factory departments; methods of experimental investigation of shop processes.

Required of students in Mechanical Engineering. One hour per week. Mr. Guillet.

FOURTH YEAR.

240. *Mechanics of Machines.*—

(A) Gyrostatic action in machines; further treatment of engine governors; primary and secondary balancing of engines; knocking and shocks in reciprocating machinery; vibration; valve gears.

(B) The principles underlying the stability and weight supporting power of curved and plane surfaces driven through the air at high velocities together with the power required to maintain these velocities are studied and the designs of such machines used for purposes of illustration.

Required of students in Mechanical Engineering. Two hours per week. Mr. McKergow.

Reference Books:—Dalby's Balancing of Engines; Spangler's Valve Gears; Lanchester's Aerodynamics.

241. *Designing.*—The complete design of an engine, a pump, or a machine tool, is worked out, and the requisite working drawings and tracings are prepared.

Required of students in Mechanical Engineering. Three hours per week. Mr. Roberts.

242. *Machine Design.*—

First Term.—Design of power transmission gearing, including belts, ropes, friction, chain and toothed gearing; fits and fitting.

Second Term.—Engine details, including cylinders, piston rods, connecting rods, shafts, flywheels, and machine frames.

Required of Mechanical Engineering students. Two hours per week. Mr. Roberts.

243. *Machine Design.*—Course same as 242, first term. Two hours per week during first term. Required of Electrical Engineering Students. Mr. Roberts.

244. *Mechanical Engineering.*

A. Power Plant Design.—Arrangement, design and operation of power plants worked by steam or gas engines; effect of requirements for lighting, heating and power distribution.

One lecture hour and one drafting room period per week. Mr. McKergow.

Text Book:—Gebhardt, Steam Power Plant Engineering. Required of students in Mechanical Engineering.

B. A student must elect one of the following courses.

245. *Locomotive Engineering.*—Train resistance, tractive force in locomotives; locomotive performance and rating; brakes; fuel and water in locomotive work. One hour per week. Prof. Keay.

Text Book:—Henderson, Locomotive Operation.

246. *Marine Engineering.*—Ship resistance and propulsion; efficiency and performance of marine machinery and propellers; arrangement and operation of main and auxiliary machinery for marine work. One hour per week. Prof. Durley.

Reference Books:—Taylor, Resistance of Ships. Sennett and Oram, The Marine Steam Engine.

247. *Heating and Ventilation of Buildings.*—Loss of heat from buildings, radiating surfaces; design and operation of heating systems; principles of ventilation; fans and blowers; design of duct systems; temperature and humidity control. One hour per week. Mr. McKergow.

Text Book:—Carpenter, Heating and Ventilating Buildings (Wiley).

249. *Mechanical Engineering Laboratory.*—Experimental investigation of:—Engine balancing and vibration; action of governors; performance of fans and blowers; power absorbed by machine tools; efficiency of hoisting machinery; performance of steam boilers; steam engines, condensers, gas engines and producers; efficiency of air compressing and pumping machinery; tests of a complete steam power plant, gas power plant, and a heating and ventilating system. Ten hours per week. Mr. McKergow.

Required of students in Mechanical Engineering.

Text Book:—Carpenter, Experimental Engineering.

257. *Experimental Engineering.*—Theory of errors; methods of testing and tabulating results of tests on steam boilers, steam engines, gas producers, internal combustion engines, air compressors, refrigerating machinery, etc. Required of students in Mechanical Engineering. One hour per week. Mr. Blizard.

Text Book:—Carpenter, Experimental Engineering.

251. *Thermodynamics.*—Theory of reversed heat engines and refrigerating machines; entropy and entropy-temperature diagrams; advanced theory of internal combustion engines; a thermodynamic study of the steam engine, including the

behaviour of steam in the cylinder; economy of steam engines influence of size, speed, and rate of expansion; compound expansion; the steam jacket; the testing of steam engines; flow of gases and vapours; theory of steam turbines. The whole course is carried out as far as possible in connection with the experimental work of the Mechanical Engineering Laboratories. Two hours per week. Prof. Durley.

Required of students in Mechanical Engineering.

Text Books:—Ewing's Steam Engine (Cambridge Univ. Press); Moyer, Steam Turbines (Wiley); Marks and Davis, Steam Tables and Diagrams (Longmans).

Books of Reference:—Stodola, The Steam Turbine (trans. Lowenstein), (Van Nostrand); Jude, Theory of the Steam Turbine (Griffin).

252. *Machine Shop.*—Experimental work and studies for the minimum time required for production, involving a consideration of best available machine tool speeds, necessary power of belting, most efficient tool angles, quality of metal and the kind of tool steel used. The course includes work in connection with the lathe, the planer, slotter, shaper, miller and turret lathe; and instruction in gear cutting and cutter grinding. Required of students in Mechanical Engineering. Three hours per week. Mr. Miller.

253. *Manufacturing Plant Design.*—Methods adopted in designing a plant for manufacture of a specified product; lay out of shops; construction of buildings; equipment; requirements for power, heat and light; fire protection; general system of operation and cost determination as affecting design of plant. (Optional with Course 99, [Hydraulic Machines] for students in Mechanical Engineering.) Two lecture hours and one drafting room period per week, Second Term. Mr. Roberts.

Text Book:—Day, Industrial Plants (Engineering Magazine).

254. *Works Organization and Accounting.*—Analysis of costs of production and establishment changes; elements of factory accounting; factory record systems; depreciation; organisation of staff; functions of departments; purchasing systems; methods of remunerating labour; shop organisation and equipment as affecting efficiency of production. Work done as far as possible in connection with course 253. Required of students in Mechanical Engineering. One hour per week. Mr. Guillet.

Reference Book:—Carpenter, Profit making management (Engineering Magazine.)

## Department of Metallurgical Engineering and Metallurgy.

PROFESSOR:—ALFRED STANSFIELD.
LECTURER:—S. W. WERNER.
RESEARCH FELLOW:—C. G. PORTER.

THIRD YEAR.

261. *General Elementary Metallurgy.*—The lectures include:—(1) A short account of the properties, composition and uses of the common metals and alloys; (2) a course on *Fuel,* including the properties and uses of solid, liquid and gaseous fuels; the preparation of artificial fuels such as charcoal, coke and producer gas; pyrometry, calorimetry, refractory materials and furnaces; (3) an outline account of the metallurgy of iron, steel, copper and lead.

Two lectures a week during first term for Metallurgical, Mining and Chemical students. Dr. Stansfield.

Text Books:— A. H. Sexton, "Fuel and Refractory Materials;" or Huntington and McMillan, "Metals, their properties and treatment."

262. *Metallurgical Laboratory.*—The course includes instruction in pyrometry, calorimetry and the microscopic examination of metals. One period a week during the first term for Metallurgical students.

263. *Fire Assaying, Part I.*—The lectures and instruction sheets give an account of the furnaces, balances and other appliances used in assaying; the sampling and preparation of ores; fluxes and reagents, and the methods used in assaying gold, silver and lead ores, copper and copper ores and mattes; gold and silver bullion and base bullion; cyanide precipitates and solutions.

In the laboratory the students learn as many of these methods as are possible in the time allotted to this course. Care is taken that a student shall be able to make such assays as would be required at a mine, and with a fair degree of accuracy. Metallurgical and mining students usually have an opportunity of doing additional fire-assaying in their fourth year.

One lecture and two afternoons laboratory a week during the first term, for Metallurgical, Mining and Chemical students. Mr. Werner.

Reference Books:—R. W. Lodge, "Notes on Assaying;" C. H. Fulton, "Manual of Fire-Assaying."

264. *Fire-Assaying, Part II.*—In this course the remainder of the above assay-methods are practised and the student is

given the opportunity of acquiring greater accuracy and speed and the ability to run a number of assays at the same time. The course is designed to fit students for entering an assay office at a smelter or refinery. The course may be taken in the third or fourth years, and is required of all Metallurgical students except those who specialize in iron and steel.

265. *Metallurgical Calculations.*—This is an introductory course on the application of exact chemical and physical laws to metallurgical operations such as the combustion of fuel, the smelting of ores and the construction and heating of furnaces.

One lecture a week for Metallurgical students. Dr. Stansfield.

Text Book:—J. W. Richards, "Metallurgical Calculations," Vol. I.

266. *Colloquium.* — Metallurgical students have certain hours for reading in the library. They are required to read current metallurgical periodicals and to give an account of their reading at the Colloquium which is held once a week. Dr. Stansfield.

267. *Summer School* (*Metallurgical Works*).—Metallurgical students are required to attend the summer school which is held at the end of their third year. In this school, visits are paid to metallurgical works both in Montreal and at a distance.

In addition to this, excursions may be made by the class from time to time to such metallurgical works as are within reach.

A short course of lectures is given in the second term for Metallurgical students as a preparation for the field work in metallurgy.

FOURTH YEAR.

271. *Metallurgy* (*General*).—This course includes—(*a*) A few lectures in explanation of the laboratory work (273).

(*b*) *The Metallurgy of Iron and Steel,* including an account of iron ores and their preparation; the iron blast furnace, its construction and operation; pig iron and its properties; wrought iron, its manufacture and properties; crucible, Bessemer and open-hearth steel making; the properties and heat treatment of steel.

Text Book:—Bradley Stoughton, "The Metallurgy of Iron and Steel."

Reference Books:—Forsythe, "The Blast Furnace"; H. O. Hofman, "Metallurgy of Iron and Steel"; T. Turner, "Met-

allurgy of Iron"; H. M. Howe, "Metallurgy of Steel"; H. H. Campbell, "Manufacture and Properties of Iron and Steel."

(*c*) *The Metallurgy of Copper, Lead, Gold and Silver.*—In these lectures the production of copper and lead from their ores by furnace methods is considered in detail. The refining of these metals by furnace and electrolytic methods and the parting and refining of gold and silver are treated in outline.

An outline of electro-metallurgy is also given. Two lectures a week during the session. Dr. Stansfield.

Text Books:—E. D. Peters, "Principles of Copper Smelting"; H. F. Collins, "Metallurgy of Lead."

Reference Books:—E. D. Peters, "Modern Copper Smelting"; H. O. Hofman, "Metallurgy of Lead"; H. F. Collins, "Metallurgy of Silver"; T. K. Rose, "Metallurgy of Gold."

272. *Metallurgy.*—The course will include some or all of the following:—

(*a*) *Alloys.*—The theory of solutions applied to metals and metallic alloys; composition, manufacture and uses of the common alloys.

(*b*) *Metallurgical Calculations.*—A continuation of course 265, applying mathematical treatment to the more important metallurgical processes and furnaces.

(*c*) *Metallurgy of Zinc, Nickel, Cobalt, Platinum, etc.*

(*d*) *Electro-Metallurgy.*—The electrolytic separation and refining of copper, lead, nickel, gold, silver, etc.

(*e*) *Hydro-Metallurgy* of copper, silver, nickel, etc.

(*f*) *Metallurgical Construction and Design.*

(*g*) *Specifications and Testing* of steel and other metals, refractory materials, fuels, etc.

(*h*) *Costs of Metallurgical Plant and Operations.*

Required of Metallurgical students. Two hours a week during the session. Dr. Stansfield.

Text Book—Fulton, "Principles of Metallurgy."

273. *Metallurgical Laboratory, Part I.*—

The following metallurgical exercises will be carried out, as far as time will permit, either as demonstrations, individual work, or work in groups:—(*a*) Roasting a sulphide or arsenical ore on a small scale and also in the large roasting furnaces; (*b*) formation and properties of copper or lead mattes and slags; (*c*) smelting a copper or lead ore in the water jacketed blast furnace; (*d*) melting and casting certain metals and alloys; (*e*) the use of the electric furnace; (*f*) leaching a copper or silver ore; (*g*) elementary exercises in some of the following:—pyrometry, calorimetry, flue gas

analysis, tests of refractory materials, microscopic examination of metals, heat treatment of iron or steel.

Required of Metallurgical and Mining students. One period per week in the first term.

Students of Metallurgical Engineering spend four or five periods during the first term in the Hydraulic Laboratory. These periods are taken from courses 273 and 300.

Required of Metallurgical and Mining students. One period per week in the first term.

274. *Metallurgical Laboratory, Part II.* — This time is devoted to the serious study of some metallurgical problem. Usually two students work together and present a thesis containing an account of important published work bearing on their subject, as well as the result of their own experimental researches.

Required of Metallurgical students. Three periods a week during the second term.

275. *Electro-Metallurgy.* — This course of lectures is restricted to a consideration of the principles and construction of electric furnaces, and their uses for smelting and refining metals. Other parts of the subject are treated in the lectures on electro-chemistry. Two lectures a week during the second term for Metallurgical, Electrical and Chemical students. Dr. Stansfield.

Text Book:—A Stansfield, "The Electric Furnace."

276. *Electro-Metallurgy Laboratory.*—The work is arranged to illustrate the lectures. Groups of students operate each of the main types of electric furnace and become familiar with some of the principles of electric furnace construction and design. One period a week for students taking course 275.

277. *Colloquium.*—One hour a week during the session is given to informal discussion of research and other work being done in the department, and to other topics of metallurgical interest. Dr. Stansfield.

278. *Metallurgical Machinery and Design.*—This course includes lectures on metallurgical machinery and design and two periods a week in the drafting room is devoted to drafting and designing metallurgical furnaces and plants.

## Department of Mining Engineering.

PROFESSOR:—JOHN BONSALL PORTER.
ASSISTANT PROFESSOR:—JOHN W. BELL.
DAWSON FELLOW IN MINING:—J. D. GALLOWAY.
DEMONSTRATOR: ———
DOUGLAS RESEARCH FELLOWS:—G. E. MURRAY. J. B. de HART.

THIRD YEAR.

291. *Mining Engineering.—The principles and practice of mining.*—Prospecting, simple mining methods, excavation, explosives and blasting, rock drills, coal cutters, gold washing and dredging, hydraulic mining, quarrying, etc. Two lectures per week in the second term. This course is continued in the fourth year. (See 297.) Prof. Porter.

292. *Ore Dressing.—The theory and practice of ore dressing and coal washing.*—The forms in which ores occur and the effect of mixture, impurity, etc.; the theoretical considerations affecting mineral separations; the general mechanical operations involved; dressing machinery—breakers, stamps, rolls, screens, jigs, vanners, tables, washers, buddles, magnetic separators, etc. Two lectures per week in the second term and laboratory. This course is continued in the fourth year. (See 299.) Prof. Porter.

293. *Ore Dressing Laboratory.*—Simple tests of ores, sands and gravels, by means of pan, vanning shovel, classifier, jig, etc. One afternoon per week in the second term. Further laboratory work in the fourth year. (See 300 and 301.)

FOURTH YEAR.

297. *Mining Engineering.—The principles and practice of mining.*—Prospecting, deep wells, diamond drilling, open cast mining, shaft sinking, drifting, underground development, methods of mining, timbering, hauling, hoisting, draining, pumping, lighting, ventilating, etc.; mine accidents and their prevention; general arrangement of plant, administration, stores and dwellings; examination and valuation of mines and mineral properties and mine reports. Three lectures a week. Prof. Porter.

298. *Mining and Ore-Dressing Machinery and Design.—The application of mechanical and electrical engineering to mining, ore-dressing and metallurgy.*—Machinery for haulage, hoisting, pumping, ventilating, etc.; mine power plants, power transmission, tramways, cable ways, compressors, blowing engines, conveyors, cranes, etc.; mine and mill buildings, head

frames, ore bins, lay out of plant, etc. One lecture a week and two drafting room periods in the second term for all students in course and one additional lecture per week for students taking alternative (*b*). Prof. Porter and Mr. Bell.

299. *Ore Dressing and Milling.*—Continuation of the ore dressing course of the third year. Concentration plants, coal breakers and washers, dry concentration, amalgamation, gold and silver milling, cyaniding, chlorinating, etc. Three lectures a week in the first term. Prof. Porter.

302. *Mining Colloquium.*—One hour a week is given to the presentation and discussion of papers on the work being done in the department and to other matters relating to mining and ore dressing. Students are required to take the leading part in these exercises.

300. *Ore Dressing and Metallurgical Laboratory.*—Two mornings per week in the first term are given to the ore dressing, hydraulic and metallurgical laboratories. This time is chiefly assigned to ore dressing and metallurgy, and certain typical operations in each are carried out. The set exercises in ore dressing are a continuation of the third year laboratory work and comprise a series of experiments in crushing, classifying, jigging, slime treatment, magnetic separation, cyanidation and amalgamation, and include a complete trial run of the five-stamp battery on a free milling gold ore.

(Students taking the geological alternative give one morning per week in the first term to petrographical laboratory and only one to ore dressing, metallurgy, etc., as above.)

301. *Ore Dressing Laboratory and Thesis Work.*—In the second term one whole day and one additional morning are given to individual laboratory work and to the preparation of a thesis to be filed in the departmental library and, when practicable, published.

The subjects available for thesis work are very numerous and range from purely theoretical investigations in crushing, screening, classification, concentration, etc., to the experimental determination of the best methods for the treatment of particular ores and coals. Over one hundred and twenty-five different lots of ore are available, and the quantities are sufficient for work on a comparatively large scale. New ores are constantly being secured.

*Advanced Courses.*—Special courses of instruction are offered to graduate students in mining and ore dressing. These courses include lectures, colloquia and individual work in the laboratories and drafting room.

Text Books:—The text book used in ore dressing is R. H. Richards Text Book in Ore Dressing. No formal text book is used in mining, but in both mining and ore dressing, students are required to look up a large number of special references and also to make frequent use of the works named below:—Sir C. LeNeve Foster's Ore and Stone Mining; Mayer's Mining Methods in Europe; H. W. Hughes' Text Book of Coal Mining; Boulton's Coal Mining; Behr's Winding Plants for Great Depths; Saunders' Mine Timbering; W. H. Storms' Timbering and Mining; R. H. Richard's Ore Dressing; T. A. Rickard's Stamp Milling of Gold Ores and Sampling and Estimation of Ore in a Mine; H. Louis' Handbook of Gold Milling; T. K. Rose's Metallurgy of Gold; H. F. Collins' Metallurgy of Silver; James' Cyanide Practice; Julian and Smart's Cyaniding Gold and Silver Ores; The Coal and Metal Miners' Pocket-book; Manual of Mining by M. C. Ihlsing; The Principles of Mining by H. C. Hoover.

## Laboratories.

The specific laboratory instruction in mining subjects proper begins in the third year, with courses in assaying and elementary ore dressing. In the fourth year this work is elaborated, the general method of instruction being first to conduct a limited number of important typical operations, and then to assign to each student certain methods which he must study out in detail, and upon which he must experiment and make written report. In this work he is guided by the professors and demonstrators, and assisted by the other students, whom he must in turn assist when practicable. In this way every student acquires detailed knowledge of certain typical operations and makes at least one original investigation and at the same time gains a fair general experience in many of the important methods in use.

## Illustrations, Museums, Societies, Etc.

In addition to a large series of lantern slides, the department owns a collection of over four thousand photographs and other illustrations. This collection is constantly being enlarged.

The Museums of the building contain suites of ores, concentrates, fuels, and metallurgical materials, models of mines and furnaces, and collections of finished products.

The McGill University Mining Society meets fortnightly to read and discuss papers by graduate and student members,

and occasionally to hear lectures by gentlemen eminent in the profession. Members may attend meetings of the mining section of the Canadian Society of Civil Engineers, and, may, for a nominal fee, become student members, and receive all the publications of the Society.

The Mining Society Camera Club is a departmental organization comprising members of the staff and students interested in Engineering photography. The club meets fortnightly and excursions, competitions, etc., are arranged from time to time.

The Society has also been made a students' section of the Canadian Mining Institute, and its undergraduate members are therefore student members of the Institute, and receive all its publications. Papers read before the Mining Society may be entered in competition for any students' prizes offered by the Canadian Mining Institute. (See page 29.)

## Field School in Mining.

294. The summer vacation class instituted in 1898 is now a fixed part of the course. All students of Mining in regular course are required to attend this class at the end of the third year.

The school lasts about six weeks. Of this period about one-sixth is given to field work in geology, one-half or more to mining work proper, and the remainder, when practicable, to an examination of ore dressing and milling plants and metallurgical establishments. The professor of Mining and his assistant and a member of the geological staff go with the party and hold daily demonstrations or classes. The students take notes and sketches on the ground, and afterwards are required to work up these notes and to submit a formal report on some part or the whole.

During the last thirteen years these field parties have visited British Columbia five times, Nova Scotia four times, Pennsylvania and Newfoundland twice, and Michigan once. Numerous visits have also been made to Sudbury, Cobalt and other Ontario localities while en route to more distant points.

The instruction given during this field course is free to all Mining students, the only expense to them being the cost of board, lodging, and railway fares. These expenses are kept as low as is practicable and are in part met by the income of a fund provided by Sir William Macdonald, from which deserving students who require aid can also have money advanced them by applying to the Professor of Mining.

At the close of the regular work of the field school arrangements are made with the managers of the mines visited and others to give the members of the party individual employment for the remainder of the summer. All students are earnestly advised to engage in such work, and it is probable that it will be made obligatory at an early date in the future.

## Department of Physics.

PROFESSORS:— { H. T. BARNES. / HAROLD A. WILSON.
LECTURER:—F. H. DAY.
SESSIONAL LECTURER:— { L. V. KING.
DEMONSTRATORS:— { N. E. WHEELER. / J. C. POMEROY.
ASSISTANT DEMONSTRATORS:— { J. B. MABON. / H. E. REILLEY. / J. W. HAYWARD.

The instruction includes a fully illustrated course of experimental lectures on the general principles of physics (embracing, in the first year, *The Laws of Energy—Heat, Light, and Sound*; in the second year, *Electricity and Magnetism*), accompanied by courses of practical work in the laboratory, in which the students will perform for themselves experiments, chiefly quantitative, illustrating the subjects treated in the lectures. Opportunity will be given to acquire experience with all the principal instruments used in exact physical and practical measurements.

311. FIRST YEAR.—Lecture course. Subject, Heat Sound and Light. Two hours per week. Tuesday and Thursday mornings. Prof. Barnes.

Text Book:—Deschanel's Heat, Sound and Light, special edition, Renouf Publishing Co.

312. Laboratory Course.—Three hours per week, spent in practical measurements in the Macdonald Physical Laboratory in conjunction with the lecture courses. See time table of Sections.

Text Book:—Tory and Pitcher's Laboratory Manual.

315. SECOND YEAR.—Electricity and Magnetism. Lecture course, two hours per week. Monday and Friday or Wednesday and Saturday mornings. Prof. Wilson.

316. Laboratory course, three hours per week. *Magnetism and Electricity.*—Measurements of pole strength and moment

of a magnet; the magnetic field; methods of deflection, and oscillation; comparison of moments and determination of the elements of the earth's magnetism.

*Current Electricity.*—A complete course of measurements of current strength, resistance, and electromotive force; calibration of galvanometers.

Text Books:—Whetham's Experimental Electricity; Tory and Pitcher, Laboratory Manual.

317. An additional course, involving four laboratory periods per week with lectures, will be given in the month of September, 1912, and thereafter, for students in Electrical and Mechanical Engineering.

320, 321. THIRD YEAR.—Students of Electrical Engineering will continue their work in the Physical Laboratory in the third year. The following is a brief outline of the course:—

Magnetic elements and measurements; testing magnetic qualities of iron; theory and practice of absolute electrical measurements; comparison and use of electrical standards of resistance, E. M. F., self and mutual-induction, and capacity; testing and calibration of ammeters and voltmeters; insulation and capacity tests; electric light photometry.

Text Book to be selected. Wednesday morning at 10. Laboratory, Wednesday morning and afternoon. Prof. Barnes.

322. FOURTH YEAR.—Students of Electrical Engineering may take a course of lectures in electrical theory, optional. Prof. Wilson.

323. *Advanced Courses and Research.*—For advanced courses of lectures see under honour courses in Arts. Owing to the complete equipment of the Laboratories there are special facilities offered for those desiring to take up research work in heat, optics, sound, electricity, and magnetism and radioactivity.

## Department of Surveying and Geodesy.

PROFESSOR:—C. H. MCLEOD.
ASSISTANT PROFESSOR:—J. B. HARVEY.
LECTURER:— ————————
DEMONSTRATORS:— ————————
————————

This course is designed to give the student a theoretical and practical training in the methods of plane and geodetic surveying, in the field work of engineering operations, and in practical astronomy. The lecture course is divided as follows:—

346. SECOND YEAR.—Chain and angular surveying; the construction, adjustment, use and limitations of the transit, level, micrometer, compass and minor field and office instruments; railway circular curves; planimeter and pantograph; general topography; levelling; contour surveying; stadia surveying; land systems of the Dominion and Provinces. Mr. Harvey.

352. THIRD YEAR.—Theory and use of instruments; hydrographic surveying; the use of the plane table; mining surveying; barometric and trigonometric levelling; elements of practical astronomy. Prof. McLeod.

353. THIRD YEAR.—Theory and use of instruments; the use of the plane-table; mining surveying; magnetic surveying; hydrographic surveying; barometric and trigonometric levelling; theory of transition curves; elements of geodetic surveying; elements of practical astronomy. Prof. McLeod.

359. FOURTH YEAR.—*Practical Astronomy.* The determination of time, latitude, longitude and azimuth. *Geodesy.*—Figure of the earth, measurements of base lines and triangulation systems; adjustment and reduction of observations. Prof. McLeod.

*Field Work.*—The students are required to carry out the following work:—

347. SECOND YEAR.—(1) A farm survey, using chain and compass; (2) a compass and micrometer survey; (3) a detail survey, using chain and offset; (4) levelling; (5) transit work.

354. THIRD YEAR.—(1) Level and transit practice, including the adjustments of the instruments; (2) a survey and location of a railway line, with determination of topography and contours and subsequent staking out for construction; (3) a stadia survey; (4) a hydrographic survey of a river channel, including measurement of discharge; (5) a survey at night illustrating underground methods; (6) astronomical observations with sextant and engineer's transit.

348. Drafting from field notes of chain and angular surveys.

355. *Mapping.*—See page 109.

361. FOURTH YEAR.—(1) Determination of latitude (*a*) by transit and sextant observations on Polaris, (*b*) by zenith telescope, (*c*) by noon observations with transit and sextant; (2) determination of azimuth, (*a*) by equal altitude observations of the sun, (*b*) by observation of elongation of Polaris, (*c*) by observation of a circumpolar star with engineer's transit, (*d*) by means of solar attachments and solar compass; (3) determination of time, (*a*) by equal altitude observations of the sun with sextant and transit (*b*) by observations of the

meridian passage of stars with astronomical transit; (4) determination of longitude by clock comparisons and by lunar observation; (5) base line measurements; (6) precision levelling; (7) measurement of angles by geodetic methods; (8) plane table surveys; (9) special problems in railroad track work.

All students are required to keep complete field notes, and to prepare maps, sections and estimates from their own surveys. This office work is principally done during the regular session.

Field work is required of all students of the second year (except those taking the Practical Chemistry course), of students of the third year in the courses of Civil, Mining and Railway Engineering, and of the fourth year in the Civil Engineering course. The work will begin in 1911 on September 4th, and will continue for four weeks.

360. *Geodetic Laboratory.*—FOURTH YEAR.

The following determinations of the constants and errors of surveying instruments are made in the geodetic laboratory by the fourth year students in the Civil Engineering course:—

(1) Measurement of magnifying power; (2) errors of graduation; (3) measurement of eccentricity of circles; (4) determinations of errors of run of theodolite microscopes; (5) investigation of the errors of graduation of a standard bar; (6) graduating scales with the dividing engine, and comparison thereof on the comparator; (7) investigation of the errors of graduation of circles on the circular comparator; (8) determination of the constants of steel tapes; (9) investigation of the graduation errors of steel tapes on the fifty-foot comparator; (10) determination of the scale value of level vials; (11) investigation of the accuracy of barometers; (12) determination of the collination and inclination errors in an astronomical transit by nadix observations.

The equipment of the surveying department comprises the following in addition to the apparatus of the observatory and geodetic laboratory:—

Fifty-nine transit theodolites by various makers, with solar and mining attachments; a photo-theodolite; two 8-in. alt-azimuths; thirty-one dumpy and twelve wye levels; two gradient-telemeter levels; hand levels and clinometers; four precision levels; seventeen surveyors' compasses; one miner's dial; three prismatic compasses; pocket compasses; marine sextants; artificial horizons; box sextants; two reflecting circles; seven plane tables; six current meters; Rochon micrometers; double image micrometers; field glasses; heliotropes; barometers; one 100 ft. Invar tape; 300 ft. and 500 ft. steel tapes suitable for base measurements; steel chains and steel bands; linen

and metallic tapes; sounding lines; pickets; levelling rods; micrometer targets; slope rods; pedometers; station pointer; pantographs, planimeters, slide rules and other minor appliances.

EXAMINATION FOR LAND SURVEYORS:—Any graduate in the Faculty of Applied Science in the Department of Civil Engineering and Land Surveying, may have his term of apprenticeship shortened to one year for the profession of land surveyor.

Text Books and Books of Reference:—Gillespie's Surveying, Johnson's Theory and Practice of Surveying, Shortland's Nautical Surveying, Greene's Practical and Spherical Astronomy, Nautical Almanac, Baker's Engineer's Surveying Instruments, Breed and Hosmer's Principles and Practice of Surveying, Trumbull's Underground Surveying.

## Department of Railways.

PROFESSORS:— H. O. KEAY. V. I. SMART.

LECTURERS:— A. A. GOODCHILD. HERBERT MARTIN. GEO. C. WELLS.

INSTRUCTORS:— A. W. YOUNG. H. F. MILLER.

THIRD YEAR. (OPERATING AND EXECUTIVE.)

172. *Economics.*—Economic theory, with special reference to the organization of modern commerce and industry, railways and their development, essay writing, the preparation of reports and discussion of practical problems. Dr. Leacock.

175. *Engineering Law.*—See page 85.

135. *English.*—The preparation and criticism of reports on stated subjects, the object being to acquire a clear and accurate style. Mr. Latham.

371. *Freight Service.*—Freight department organization, records, and statistics,—a full explanation of the methods of handling freight. Mr. Martin.

228. *Mechanical Engineering Laboratory.*—See page 91.

86. *Mechanics.*—See page 74.

372. *Railway Engineering*:—The locomotive and its work; locomotive and grade problems; effect of distance, rise-and-fall, and curvature on train mile costs; estimate of probable receipts and expenditures;

economics of location, reconnaissance, preliminary, and location surveys; turnouts; yards and terminals; details of construction; materials of construction. Prof. Smart.

For list of Reference Books, see page 112. (Fourth year Railway Engineering.)

355. *Mapping.*
Draughting, from notes, the paper location of a railway; maps and profiles; earthwork diagrams; switch design; yard design. Prof. Smart.

373. *Railway Mechanical Engineering.*—Elementary course on the steam engine, steam boilers, power plant equipment, steam turbines, gas engines, compressed air and elementary locomotive construction and operation. Prof. Keay.
Text Book:—Ripper's Heat Engines. (Longmans, Green & Co.).

374. *Railway Organization and Accounting.*—Organization and work of the various departments; duties of officers; accounting. (A course preparatory to that of the fourth year.) Mr. Goodchild.

375. *Shorthand.*—Mr. Young.

376. *Telegraphy.*—Mr. Miller.

NOTE.—Students are required to follow systematic courses in shorthand and telegraphy throughout the third and fourth years.

FOURTH YEAR. (OPERATING AND EXECUTIVE.)

379. *Accounting.*—The principles of accounting, a development of the course of the third year. Earnings and expenses; shop material and cost, labour and methods of paying for same; statements, their nature and value. Mr. Goodchild.

177. *Railway Economics.*—Transportation Economics, including the theory of railway rates, railway commissions, taxation of railways, government ownership and control, the treatment of transportation problems in Europe and America, etc. Attention will be paid to questions closely connected with transportation in Canada, such as the relative powers of the Dominion and Provincial Governments, the tariff, immigration, government aid to railways, public lands and immigration. *Essays* connected with the above questions will be required. Dr. Hemmeon.

111-112.—*Electrical Engineering.*—For details, see page 81.

138. *English.*—Continuing the work of the third year. Mr. Latham.

380. *Freight Service.*—An extension of the work of the third year. This course involves a discussion of the broader problems of the freight traffic department. Mr. Martin.

381. *Railway Operation.*—Organization of conducting transportation department, the development of train dispatching in America, the development of the control of train movement in Europe, conducting transportation expenses, formation of time tables, standard train rules, rules for movement of trains on single track, rules for movement of trains on double track, general rules covering the operation of trains and handling of freight and passengers, clearance cards and other blanks, station service, yard service, road service, duties of dispatchers and operators. Prof. Smart.

382. *Signals.*—Block signalling, manual systems, automatic systems, estimates and plans. Prof. Smart.

383. *Interlocking.*—Economic considerations, the different forms of mechanical interlocking machines, the locking sheet, dog charts, the lead out, the ground connections, switch and signal connections, the cabin, power machines, costs, interlocking of terminals and yards, electrical apparatus in connection with mechanical machines, construction and maintenance, organization of signal department, records and reports. Prof. Smart.

384. *Interlocking Design.*—Design of crossing lay out, making of locking sheets and dog charts, block signal location plans, design of switch and signal connections. Prof. Smart.

Books of Reference:—Adams, Block Signalling; Wilson's Mechanical Interlocking for Railways; Derr's Block Signal Operation; Rules of the London North Western Railway; American Railway Assoc. Standard Code; Manual of recommended practice, American Railway Engineering and Maintenance of Way Assoc; Laverack's Locking.

385. *Passenger Service.*—The passenger department; its organization, methods and general principles governing passenger business; baggage system; mail and express. Mr. Wells.

150. *Physical Geography and Climatology.*—Geographical subdivisions of the country; mineral areas; timber belts; wheat areas and water powers; irrigation; climatology and its relations to occupations and soil products. Dr. Bancroft.

176. *Railway Law.*—This course is concerned largely with the Railway Act, and a general outline of the law of common carriers. Special attention will be given to such subjects as expropriation, damage suits against railway companies, and the more usual forms of contracts with carriers. Dr. Walton.

386. *Railway Mechanical Engineering.*—Locomotive tractive power, train resistance, tonnage rating, locomotive testing, comparative costs of locomotive operation, boiler incrustation, chemical control of water purifying plants, determination of hardness, acidity, etc., fuel handling location, design, equipment and organization, with reference to roundhouse and railway shops, mechanical engineering requirements at terminals. Professor Keay.

387. *Railway Mech. Eng. Designing.*—The working out of numerous problems connected with the motive power department, supplemented by visits to power houses, shops, and locomotive terminals. Professor Keay.

Text Books:—Henderson's Locomotive Operation; Hendenson's Cost of Locomotive Operation (Railway Age Gazette).

388. *Railway Engineering.*—Interlocking, block signalling, organization of operating department, operating expenses, records and reports, maintenance of way organization, accounts and programme for expenditures, track maintenance, tie renewals, ballast renewals, relaying and renewing rails, track tools, work train service, steam shovel work, betterments. Prof. Smart.

389. *Electric Railways.*—Preliminary considerations; probable earnings; interurban lines; city lines; effects of grades; curves and distance; time tables and schedules; rolling stock; railway motors; speed and current curves; train resistance and power-time curves; speed and energy curves; performance curves; trucks; brakes; controllers; construction; roadway; ballast; rail; power stations, and power distribution; repair

shops; maintenance of track, equipment and transmission line. Mr. Christie.

Reference Books:—Canadian Railway Act of 1903; Wellington's Economics of Railway Location; Lavis, Railway Location Surveys and Estimates; Webb's Economics of Railway Construction; Gillette's Earthwork and its Cost; Allen's Railway Curves and Earthwork; Manual American Railway Engineering and Maintenance of Way Assoc; Rules of the M. of W. Dept. C.P.R.; Gotshall's Electric Railway Economics; Tratman's Track and Track Work; Paine's Roadmaster's Assistant; Camp's Notes on Track.

390. *Shorthand.*—Mr. Young.

391. *Telegraphy.*—Mr Miller.

Continuing the third year courses.

## Practical Railway Training.

Arrangements have been made with one of the larger Canadian Railways whereby special apprenticeship training is offered to students in the Transportation and Mechanical Courses of the University. Thus the summer vacations and a period of two years after graduation are utilized to give the students a broad practical railway experience, with a view to developing men for official positions.

The summer training for Transportation and Mechanical students will be the same for the first two years; at the end of that time students will be required to make a decision as to whether they desire to subsequently adopt the Transportation or the Mechanical Course.

The work arranged for Transportation Students is as follows:—

First Year (Vacation)—Three months as special apprentice at the Railway Shops.

Second Year (Vacation).—Three months as special apprentice at a roundhouse.

Third Year (Vacation).—Three months in road service as an extra brakeman.

After graduation.—Three months in station service.
Three months in Stores Department.
Three months in Master Mechanic's office.
Six months on track work.
Three months in Accounting Department.
Six months with Train Master.

The practical training in the Mechanical Course, following the first two vacation periods, will be mainly at the railway company's shops, together with such special assignments in the motive power department as will best serve to develop the men for larger responsibilities.

In order that no valuable time may be lost to students of the first year intending to follow either of these railway courses, they should consult with the Head of the Railway Department, (Room 65, Engineering Building) before the beginning of their first vacation.

## ENGINEERING SOCIETIES.

1. The headquarters of the Canadian Society of Civil Engineers are located in Montreal. Students in all departments of engineering are strongly recommended to become student members of the Society, which they can do on payment of a fee of $3.00. They are then entitled to the two volumes of "Transactions," which are annually published, and to the use of the Society's rooms 413 Dorchester Street. They also have opportunities of meeting the prominent engineers of the country and of being present at the fortnightly sessions, at which papers are read on current engineering subjects and works of construction.

Students are invited to compete for the prizes which are offered by the Society.

2. Students in Mining and Metallurgy are strongly recommended to become members of the McGill Mining Society, which, although a student body (see p. 103), is affiliated with the Canadian Mining Institute, the headquarters of which are in Montreal. Members of this Society receive the Transactions of the Institute without extra expense, and are entitled to attend all meetings and to compete for the prizes offered.

## REGULATIONS CONCERNING PREREQUISITE SUBJECTS.

(1). No student proceeding to a degree will be allowed to take any subject, unless he has previously passed, or secured exemption, in all prerequisite subjects.*

(2). All students proceeding to a degree as above shall be classed as undergraduates and conditioned undergraduates, the latter being students with defective entrance qualifications or who have failed in one or more of the subjects of their course, in the year previous to that in which they are entered.

(3). Except in special cases as provided below, no undergraduate or conditioned undergraduate shall be permitted to take any Second Year subject until he has passed or secured exemption in all matriculation requirements, and, similarly, no Third or Fourth Year work may be undertaken until all First or Second Year subjects respectively shall have been passed or exempted.

The Faculty may waive this rule in special cases on recommendation of the Committee on Registration, Promotion, etc.

(4). Partial students not proceeding to a degree may be admitted to classes without regard to the prerequisite rule, provided that they have obtained the permission of the head of each department concerned, and have also had their courses approved by the Committee on Registration, Standing and Promotion.

(5). In the event of a special student desiring to obtain undergraduate standing in order to proceed to a degree, he shall not be given credit for work already done without the usual prerequisites until he has also passed examinations or secured exemptions in such prerequisites as may be demanded by the Committee and has had his case approved by a unanimous vote of the Faculty.

(6). All undergraduates who at the close of any session have passed the examinations in all the subjects of their year, or

*It is to be noted that prerequisite subjects are those which, in the opinion of the Faculty, must have been mastered before the subjects to which they are prerequisite can be intelligently studied. Concurrent subjects are those which so supplement one another that no one of them can be intelligently studied alone. If any subject has another which is concurrent to it, both must be taken in the same session.

who at the opening of the following session have removed all conditions by passing supplemental examinations in the subjects in which they have failed, may pass into the next higher year as undergraduates.

(7). All students who have conditions that have not been removed at the opening of any session are conditioned undergraduates, and come under the regulations governing prerequisite subjects. The rules concerning prerequisite subjects make it possible for a student whose failures are not too numerous or too serious, to complete his course in five years instead of four, which suffice for a student who remains in good standing throughout his course.

---

**No student with a condition will be admitted to the second term of the Fourth Year.**

List of subjects in Faculty of Applied Science with the Numbers of Subjects which are prerequisite and concurrent :

| No. | Year | SUBJECT | Prerequisite | Concurrent |
|---|---|---|---|---|
| 1 | II | Architectural Design | 12, 32, 36 | |
| 2 | III | " " | 1, 4, 5 | |
| 3 | IV | " " | 2, 6 | |
| 4 | I | Elements of Architecture | | |
| 5 | II | Theory of Architecture | 5, 12, 32, 36 | |
| 6 | III | Theory of Design | 1, 4, 5 | |
| 7 | IV | Theory of Planning | 2, 6 | |
| 8 | II or III | Ornament and Decoration | 12, 32, 36 | |
| 9 | II or III | " " " | 12, 32, 36 | |
| 10 | II or III | " " " | 12, 32, 36 | |
| 11 | II or III | " " " | 12, 32, 36 | |
| 12 | I | History | | |
| 13 | II | " | 12 | |
| 14 | II | History of Architecture | 12, 32, 36 | |
| 15 | III or IV | " " " | 13, 14, 33 | |
| 16 | III or IV | " " " | 13, 14, 33 | |
| 17 | IV | Modern Architecture | 15 or 16 | |
| 18 | I | Mathematics (with Arts) | | |
| 19 | II | " " " | 18, 311 | |
| 20 | I | Physics (with Arts) | | |
| 21 | I | Physics Laboratory (with Arts) | | |
| 22 | III | Hygiene of Buildings | 24, 25, 311 | |
| 23 | III | Heating and Ventilation | 22, 24, 25, 311 | |
| 24 | II | Building Construction | 32, 311 | |
| 25 | II | " " Detail | 32, 311 | |
| 26 | III | Structural Engineering | 19, 24, 25 | |
| 27 | III | " Detail | 19, 24, 25 | |
| 28 | IV | Graphical Statics | 26, 27 | |
| 29 | IV | Structural Design | 26, 27 | |
| 30 | I | French (with Arts) | | |
| 31 | IV | Architectural Practice | 22, 24, 25 | |
| 32 | I | " Drawing | | |
| 33 | II | " " | 33 | |
| 34 | III | " " | 30, 33 | |
| 35 | IV | " " | 31, 34 | |
| 36 | I | Freehand Drawing | | |
| 37 | I | Modelling | | |
| 38 | II | " | 37 | |
| 39 | III | " | 38 | |
| 40 | IV | " | 39 | |
| 51 | II | General Chemistry | 311, 312 | 52 or 53 |
| 52 | II | " " Lab. (Eng. Students). | 311, 312 | 51 |
| 53 | II | " " " (Chem. & Mtl. Stud's) | 311, 312 | 51 |
| 54 | II | Inorg. Qual. Anal. | 53 | 51, 55 |

| No | Year | SUBJECT | Prerequisite | Concurrent |
|---|---|---|---|---|
| | III | Summer School (Chem. & Met. Eng. Stud's) | 51, 52 | 55 |
| 55 | II | Inorg. Qual. Anal. Lab | | 54 |
| | III | Summer School (Chem. & Met. Eng. Stud's) | | 54 |
| 56 | III | Organic Chemistry | 54, 55 | 57 |
| 57 | III | " " Lab | | 56 |
| 58 | III | Physical Chemistry | 54, 55 | |
| 59 | III | Inorg. Qual. Anal | 51, 52 | 60 |
| 60 | III | " " " Lab | | 59 |
| 61 | III | " Quant. " | 54, 55 | 62 |
| 62 | III | " " " Lab | | 61 |
| 63 | III | Applied Electro-Chem. & Lab. | 51, 52 | |
| 65 | III | Mineral Anal. (Chem. Eng.) | 54, 55 | 61 |
| 66 | IV | Organic Chem. & Lab | 56, 57 | |
| 67 | IV | Physical Chem. & Lab | 58 | |
| 68 | IV | Inorg. Quant. Anal. & Lab | 61, 62 | |
| 69 | IV | Industrial Chemistry | 61, 62 | |
| 70 | IV | Applied Electro-Chem. & Lab. | 63 | |
| 71 | IV | Mineral Anal. (Mining Students) | 59, 60 | |
| 81 | II | Materials of Construction | | |
| 82 | II | Graphical Statics | 194 | |
| 83 | II | Mechanics | 194 | 198 |
| 86 | III | Mechanics | 83, 198 | |
| 87 | III | Strength of Materials | 83, 198 | |
| 88 | III | " " " Lab | | 87 |
| 89 | III | Foundations and Masonry | | 87 |
| 90 | III | Structural Engineering | | 87 |
| 91 | III | Municipal " | 51 | |
| 94 | IV | Theory of Structures | 86, 87 | |
| 95 | IV | Reinforced Concrete | 86, 87 | |
| 96 | IV | Bridge Design | 90 | 94 |
| 97 | IV | Hydraulics | 86 | |
| 98 | IV | " Lab | | 97 |
| 99 | IV | " Machines | 86 | 97 |
| 100 | IV | Municipal Engineering | | 97 |
| 101 | IV | Hydraulics & Lab. (Short Course) | 83 | |
| 111 | III & IV | Elements of Elec. Eng | 198, 315, 316 | |
| 112 | III & IV | Elec. Eng. Lab. (Elementary) | | 111 |
| 113 | III | Electrical Engineering | 198, 317 | |
| 114 | III | Elec. Eng. Lab | | 113 |
| 117 | IV | Electrical Engineering | 113,114,201,320,321 | |
| 118 | IV | Elec. Eng. Lab. (Elec. Eng. Students) | | 117 |
| 119 | IV | Elec. Eng. Lab. (Mech. Eng. Students) | 111, 112 | |
| 120 | IV | Elec. Light & Power Distrib. | | 117, 118 |

| No. | Year | Subject | Prerequisite | Concurrent |
|---|---|---|---|---|
| 121 | IV | Electric Traction | | 117, 118 |
| 122 | IV | Electrical Designing | 225, 232 | 117, 118 |
| 131 | I | English Composition | | |
| 132 | II | " Summer Reading | | |
| 135 | III | English (Railway Course) | 131 | |
| 138 | IV | " " " | 135 | |
| 141 | III | Geology, General | | |
| 142 | III | Mineralogy | 51 | |
| 143 | III | " Determinative | 51 | |
| 146 | IV | Petrography & Lab | 141 | |
| 147 | IV | " (Advanced) | 141, 142, 143 | |
| 148 | IV | Ore Deposits & Economic Geol. | 141 | |
| 149 | IV | Geology of Canada | 141 | |
| 150 | IV | Phys. Geog. & Climatology | | |
| 151 | IV | Crystallography | 142 | |
| 152 | IV | Geology, Historical | 141, 142, 143 | |
| 153 | IV | Geological Fieldwork | 141, 142, 143 | |
| 171 | III | Engineering Economics | | |
| 172 | III | Economics (Ry. Course) | | |
| 175 | III & IV | Engineering Law | | |
| 176 | IV | Railway Law | | |
| 177 | IV | Railway Economics | 172 | |
| 191 | I | Geometry | Matric. Geom. I | |
| 192 | I | Algebra | " Algebra I | |
| 193 | I | Trigonometry | " Trig. | |
| 194 | I | Mechanics | " Alg. I & Trig | |
| 197 | II | Analytic Geometry | 192 | |
| 198 | II | Calculus | 192 | |
| 201 | III | Calculus | 198 | |
| 211 | I | Mechanical Drawing | | |
| 212 | I | Carpentry & Wood Turning | | |
| 213 | I | Smith Work | | |
| 214 | I | Foundry Work | | |
| 218 | II | Mechanics of Machines | 192, 193, 194 | 198 |
| 219 | II | Mechanical Drawing | 211, 341, 343 | |
| 220 | II | Machine Shop Work | | |
| 224 | III | Mechanics of Machines | 83, 198, 218 | |
| 225 | III | Machine Design | 81,83,87,198,218,219 | |
| 226 | III | Mech. Eng. (General Course) | 51, 81, 311 | |
| 227 | III | " " (Mech. Eng. Stud's) | 51, 81, 311 | |
| 228 | III | " " Lab. | | 226or227 |
| 229 | III | Thermodynamics | 51, 198, 311 | |
| 230 | III | Mech. Drawing (Summer Sch.) | 219 | |
| 231 | III | " " (Mech. Eng. Students) | 230 | 225 |
| 232 | III | " " (Elec. Eng. Students) | 230 | 225 |

| No. | Year | SUBJECT | Prerequisite | Concurrent |
|---|---|---|---|---|
| 233 | III | Smith Work (Summer School).. | 213 | |
| 234 | III | Foundry Work (Summer School | 214 | |
| 235 | III | Pattern Making | 212 | |
| 236 | III | Machine Shop Work | 220 | |
| 240 | IV | Mechanics of Machines | 224 | |
| 241 | IV | Designing | 87, 225, 231 | 242 |
| 242 | IV | Mach. Design (Mech. Students). | 87, 224, 225, 231 | |
| 243 | IV | Machine Design (Elec. Stud's).. | 224, 225, 232 | |
| 244 | IV | Mechanical Engineering | 227 | |
| 245 | IV | Heating & Vent'n of Buildings.. | 227 | 244 |
| 246 | IV | Locomotive Engineering | 227 | 244 |
| 247 | IV | Marine Engineering | 227 | 244 |
| 249 | IV | Mech. Eng. Lab. (Mech. Stud's) | 227, 228 | |
| 250 | IV | " " " (Elec. " ) | 226, 228 | |
| 251 | IV | Thermodynamics | 228, 229 | |
| 252 | IV | Machine Shop Work | 236 | |
| 261 | III | General Elem. Metallurgy | 51, 311 | |
| 262 | III | Metallurgical Lab | | 261 |
| 263 | III | Fire Assaying, Pt. I | 51, (52 or 53) | |
| 264 | III | " " Pt. II | 263 | |
| 265 | III | Metal. Calculations | | 261 |
| 266 | III | Colloquium | | 261 |
| 267 | III | Summer School (Metal. Works) | | |
| 271 | IV | Metallurgy (General) | 261 | |
| 272 | IV | " (Metal. Students) | 261 | |
| 273 | IV | Metal. Lab., Part I | 261 | 271 |
| 274 | IV | " " Part II | 262 or 273 | 271 |
| 275 | IV | Electro Metallurgy | 51, 315 | |
| 276 | IV | " " Lab | | 275 |
| 277 | IV | Colloquium | 261 | 271 |
| 278 | IV | Metal. Machy. & Design | 211, 261 | 271 |
| 291 | III | Mining Engineering | 81 | |
| 292 | III | Ore Dressing | 51 | |
| 293 | III | " " Lab | | 263,292 |
| 294 | IV | Mining Field School | 141 | |
| 297 | IV | Mining Engineering | 291 | |
| 298 | IV | Mining Machinery & Design | 81, 82, 226, 299 | 297 |
| 299 | IV | Ore Dressing and Milling | 292 | |
| 300 | IV | " " Lab | | 299 |
| 301 | IV | " " " Thesis Work | 300 | |
| 302 | IV | Mining Colloquium | | 297,299 |
| 311 | I | Physics | Matric. { Trig. Geom. I and II Algebra I } | |
| 312 | I | Physical Lab | | 311 |
| 315 | II | Physics | 311 | |
| 316 | II | Physical Lab | | 315 |

| No. | Year | SUBJECT | Prerequisite | Concurrent |
|---|---|---|---|---|
| 317 | III | Physics, Summer School | | |
| 320 | III | Physics (Elec. Eng.) | 315, 316, 317 | |
| 321 | III | Phys. Lab. (Elec. Eng.) | | 320 |
| 324 | IV | Advanced Phys. (Elec. Stud's.) | 320 | |
| 325 | | Heat (Advanced Physics) | | |
| 326 | | Light | | |
| 327 | | Sound | | |
| 328 | | Electricity & Magnetism | | |
| 329 | | Radioactivity | | |
| 341 | I | Desc. Geometry | Matric. Geom. I | |
| 342 | I | Freehand Drawing | | |
| 343 | I | Lettering | | |
| 346 | II | Surveying | 191, 193 | |
| 347 | II | Surveying Fieldwork | | |
| 348 | II | Mapping | 342, 343 | |
| 351 | III | Desc. Geometry | 341 | |
| 352 | III | Surveying (Miners) | 193, 346, 347 | |
| 353 | III | " (Civils) | 193, 346, 347 | |
| 354 | III | " Fieldwork | 346, 347 | |
| 355 | III | Mapping (Civil & Ry.) | 354 | |
| 356 | III | " (Miners) | 354 | |
| 359 | IV | Geodesy | 351, 361 | |
| 360 | IV | Geodetic Lab. | | 359 |
| 361 | IV | " Fieldwork | 353, 354 | |
| 371 | III | Freight Service | | |
| 372 | III | Railway Engineering | 81, 83, 346, 347, 348 | |
| 373 | III | Ry. Mech'l Eng | 218, 311, 312 | 228 |
| 374 | III | Organ. & Accounting | | |
| 375 | III | Shorthand | 131 | |
| 376 | III | Telegraphy | | |
| 379 | IV | Accounting | 374 | |
| 380 | IV | Freight Service | 371 | |
| 381 | IV | Railway Operation | | |
| 382 | IV | Signals | 372 | 111, 112 |
| 383 | IV | Interlocking | 372 | 111, 112 |
| 384 | IV | Interlocking Design | | 383 |
| 385 | IV | Passenger Service | | |
| 386 | IV | Ry. Mech'l Eng | 228, 373 | |
| 387 | IV | Ry. Mech'l Eng. Design | | 386 |
| 388 | IV | Ry. Engineering | 355, 372 | |
| 389 | IV | Electric Railways | 355, 372 | 111 |
| 390 | IV | Shorthand | 375 | |
| 391 | IV | Telegraphy | 376 | |

# LABORATORIES.

## CEMENT LABORATORY.

The equipment of the laboratory renders it possible to carry out complete tests of the strength and properties of cements, mortars, concretes, concrete beams, etc., and includes:—

(*a*) Three one-ton tensile testing machines, representing the best English and American practice.

(*b*) One 50-ton hydraulic compressive testing machine.

(*c*) Volumenometers for determining specific gravity and for determining the carbonic acid in the raw material.

(*d*) Faija steaming apparatus for blowing tests.

(*e*) Mechanical hand and power mixers.

(*f*) Apparatus for determining standard consistency.

(*g*) Vicat's and Gilmore's needles for determining set.

(*h*) Weighing hopper, spring and other balances.

(*i*) Gun metal moulds for tension, compression and transverse test pieces, and special apparatus for placing mortar into the moulds under a uniform pressure, which, together with the mechanical mixers, enable the personal errors to be eliminated.

(*j*) Sieves of 20, 30, 40, 50, 60, 70, 80, 100, 120, and 180 meshes per lineal inch for determining the fineness.

(*k*) A Boehme hammer, with all accessories.

The laboratory is also fitted with copper-lined cisterns, in which the briquettes may be submerged for any required time, and with capacious slated operating tables, bins and tin boxes for keeping the cement dry for any period.

A large amount of work is done each year by the third year students, in investigating the specific gravity, fineness, setting properties, constancy of volume, and the tensile, compressive and transverse strengths of cement, both neat and with sand.

## CHEMICAL LABORATORIES.

*(In the Chemistry and Mining Building.)*

The three principal laboratories have each a floor-space of about 2,400 square feet, and together have accommodation for nearly two hundred students working at a time. They are lighted on three sides, and have ample hood space. One is intended for beginners, and the other for more advanced work, more particularly in qualitative and quantitative analysis. In connection with each of the main laboratories is a balance-room, equipped with balances by several of the best makers.

Physical Chemistry is provided for in a special laboratory, nearly 30 by 40 feet, lighted from the north, and supplied with electricity, steam, vacuum pumps, etc. The equipment of this department consists of the apparatus necessary for the determination of the specific gravities of solutions, of the depression of freezing point, of the rise

of boiling point, and of densities of gases and vapours. There are constant-temperature baths for accurate measurement of solubilities, Kohlrausch's apparatus for determining the electrical conductivity of solutions, and the apparatus necessary for measuring the electromotive forces generated between metals and their solutions, and in voltaic cells generally. There are also calorimeters for measuring the heat effects produced in chemical reactions. On the same floor there is an optical room, devoted more particularly to crystallographic work and furnished with goniometers, polarising microscopes; axial-angle apparatus, refractometers, etc. Other forms of apparatus will be added as required for research work.

Immediately adjoining the laboratory of physical chemistry is the photographic department, supplied with two dark rooms, arranged on the maze system, and provided with the necessary appliances for all ordinary photographic work, including an enlarging camera and apparatus for micro-photography.

The laboratory for gas analysis has a northern exposure, and is fitted with a large tank to contain water at the temperature of the room, for use in obtaining a constant temperature in the measurement of gases. The tables are arranged for work with mercury, and the laboratory is supplied with the apparatus of Hemple, Dittmar, Orsat, Elliot and others. It contains also Fleuss, Boltwood, and Töpler pumps for producing high vacua.

The laboratory for electrolytic analysis is supplied with accumulators, thermopile, platinum electrodes, rheostats, ammeters, voltmeters, etc.

Another room has lately been equipped with electric furnaces and other appliances for electro-chemical work.

The organic department comprises a laboratory for preparations and research, a combustion room for analysis, a dark room for polariscope and saccharimeter work, and a lecture room. The laboratory is fitted with all the necessary apparatus for organic research—special hoods for work with poisonous gases, regulating ovens for digesting and drying at various temperatures, filter presses for the extraction of raw materials, and various forms of apparatus for distillation in vacuo. The dark room is equipped with polariscopes and saccharimeters for sugar work. There is a large supply of the necessary organic chemicals, which are supplied free of charge to students engaged in routine or research work in this department.

The laboratory for determinative mineralogy accommodates 28 students at one time, and is supplied with abundant materials for practical work. It adjoins the lecture-room in which the lectures in advanced mineralogy are delivered. The mineralogical department is also provided with suitable machinery, run by electricity, for the cutting and polishing of minerals and rocks.

## ELECTRICAL LABORATORIES.

The several electrical laboratories are the Standardizing Laboratory, the Fourth Year Dynamo Laboratory, the Third Year Dynamo Laboratory, the High Tension Laboratory, the Photometer Room and the Oscillograph Room. Power is supplied in the form of direct current from a number of independent sources and converted when alternating current is required by motor generator sets or by inverted rotaries. The equipment of the laboratories includes, besides

the usual current-limiting and controlling devices, of an ample supply of voltage, current, power, speed, etc., and metering instruments, and practically all of the principal types of commutating, synchronous and induction machinery.

(*a*) The Standardizing Laboratory is equipped with a Weston laboratory standard ammeter, range with shunts, .075 to 500 amperes; a Weston laboratory standard D. C. voltmeter, range with multipliers 0 to 3,000 volts; Weston laboratory standard wattmeters composite balance 0-600 amperes range and 0-120 kilowatts, a Kelvin Hecto-Ampere balance; a special Weston Potentiometer for current and e.m.f. measurement; a Leeds & Northrup Conductivity Bridge, standard resistances from a fraction of an ohm to a megohm, standard cells, standard capacities, etc., etc. Alternating currents of several wave shapes and frequencies from 15-150 periods per second and voltages up to 200,000 are available.

Direct current is provided from a 300 kilowatt-hour battery, and alternating current from a 15 kilowatt motor generator set.

(*b*) The Fourth Year Dynamo Laboratory.—In this laboratory, which is situated on the ground floor of the Engineering Building, all dynamos are motor driven. Speed regulation is attained either by varying the voltage supply to the motor or by varying the motor field current. Power is obtained from three independent sources of supply, two 75 k.w. D. C. direct connected units in the service plant and one 300 k.w. hour storage battery. All generators and motors are mounted on strong testing benches of different heights with slotted floor, so that any machine when placed on the bench may be quickly secured in any desired position. These benches are supported on longitudinal slotted rails and may be moved to any position in the laboratory and there bolted to the rail. An overhead 3 motor electric travelling crane permits of rapid transference of machines. All wiring is done below the floor level in passages provided for the purpose and special switchboards are provided for current distribution. Special testing tables fitted with switches, circuit breakers, etc., facilitate the work. Sixteen alternating current machines, including, single, two and three phase generators, synchronous motors, alternating current commutating motors, synchronous converters, together with stationary and rotary induction apparatus are provided for alternating work. Large variation of wave form may be obtained by the use of specially shaped inductors and field poles. Induction motors with wire wound rotors serve as induction generators and frequency changers. The laboratory is likewise provided with about one hundred voltmeters, ammeters and wattmeters of standard make and of different ranges; also speed indicators, condensers, rheostats, standard resistances, etc., etc.

(*c*) The Third Year Dynamo Laboratory.—This, laboratory, situated on the second floor of the Workman building, is similar in design to the Fourth Year Laboratory, all generators being motor driven and mounted on convenient benches, and similarly supplied with power. One hand operated travelling crane facilitates the movement of the machines. It is equipped with twenty to thirty commutating machines; constant potential generators of various types; shunt, series and compound wound motors; variable speed motors, boosters, dynamotors, closed and open coil constant current machines, varying in capacity to 40 kilowatts of many different makes. Some seventy-five voltmeters and ammeters are also provided, as well as

the usual accompaniment of starting boxes, controllers, rheostats for absorbing power, etc.

(*d*) High Tension Laboratory.—This laboratory is equipped with a D.C.—A.C. motor generator set and four 10 K.W. 200-50,000 volt 60 cycle transformers, and one 5 K.W. 100-25,000 volt 60 cycle transformer, with switchboard and suitable controlling devices. Current and voltage transformers and 100,000 volt direct reading Kelvin electrostatic voltmeter are also provided.

(*e*) The Photometer Room.—This room is equipped with standard photometric apparatus for candle power measurements of arc and incandescent lamps.

(*f*) Oscillograph Laboratory.—This laboratory is equipped with a Blondel triple oscillograph, complete with photographic attachments.

## GEODETIC LABORATORY.

The equipment of this laboratory consists of:—

(1) Linear instruments: A Rogers comparator and standard bar for investigating standards of length; a fifty-foot standard and comparator for standardizing steel bands, chains, tapes, rods, etc.; a Munro-Rogers linear dividing engine.

(2) Circular instruments: A Rogers' circular comparator; four level triers.

(3) Time: An astronomical clock and clock circuit in connection with the observatory clocks; chronometers running on mean and sidereal time; chronograph.

(4) Gravity: A portable Bessel's reversible pendulum apparatus with special pendulum clock and telescopic apparatus for observing coincidences of beats.

(5) A water gauge apparatus for testing aneroid barometers.

The laboratory and clock rooms are constructed with double walls and enclosed air spaces, and their heating is controlled by special thermostats, so that the temperature within may be brought to, and held at, any desired degree.

### Astronomical Observatory.

The observatory equipment for the purpose of instruction in practical Astronomy consists of:—

A Bamberg prismatic transit with zenith attachment; five astronomical transits for meridian observations; a Troughton & Simms zenith telescope; sidereal and mean time clocks and chronometers; Chronograph and electrical circuits by which observations and clock comparisons within or without the observatory may be made.

## HYDRAULIC LABORATORY.

In this laboratory the student studies experimentally the laws governing the flow of liquids through orifices, pipes, weirs, etc., and also carries out experiments on the efficiency of various forms of water motors running under different conditions as regards head and supply.

The equipment includes:—Apparatus for the measurement of the discharge of water from orifices, nozzles, weirs, etc., under varying conditions; arrangements for investigation of the loss of head by surface

friction, and at curves and bends in pipes; Venturi meter for use at different discharges; a hydraulic ram working against different heads; various water motors, including Pelton wheels, Girard impulse turbine, Brotherhood three cylinder rotary engine, Thomson inward flow reaction turbine, American turbine; apparatus for measurement of pressure due to impact of jets on surfaces of different forms; gauge testing appliances; Hele Shaw's apparatus for study of the stream lines in a perfect fluid, illustrating the flow round obstructions in a channel, lines of stress in plates, and numerous magnetic problems; numerous calibrated tanks, weighing appliances, and measuring apparatus in connection with the above.

## MECHANICAL ENGINEERING LABORATORIES.

These laboratories are used in connection with the courses in Mechanical Engineering subjects. The smaller apparatus belonging to the laboratories includes the necessary equipment of weighing machines, brakes, calorimeters, thermometers, gauges, pyrometers, fuel testers, indicators, planimeters, etc.

1. Mechanical Laboratory—The equipment of this laboratory includes:—

A belt testing machine capable of taking a six-inch belt at 15 feet centres (the machine has special hydraulic dynamometers and a friction brake and will absorb 15 H.P.); a Thurston railway-pattern oil tester, fitted with water cooling and heating apparatus for varying the temperature of the brasses as desired; an Engler standard viscosimeter, and other necessary apparatus for the physical testing of lubricants.

A "Dake" steam engine of 4 H.P.

A single speed horizontal engine having a cylinder 6 inches diameter and 9 inches stroke, and operated by compressed air.

A gas-fired preheater for the above engine.

A standard 9½ inch Westinghouse air brake pump, fitted for testing and for supplying compressed air for experimental and other purposes.

A non-rotative Blake steam pump, having steam and water cylinders 4½ and 2¾ inches diameter and 4½ inches stroke.

A complete air brake installation for locomotive, tender and cars.

Apparatus for measuring the heat loss from pipe coverings and from radiators.

A specially designed hydraulic support and fittings for carrying out experiments on the action of cutting tools in the lathe.

Apparatus for experiments on the efficiency of pulleys and hoisting appliances; on the efficiency of worm and other gearing; for governor testing; for testing fans and blowers; for studying problems connected with the balancing of reciprocating engines.

2. Steam Engine Laboratory:—

The steam Laboratory is furnished with an experimental steam engine of 120 I. H.P., specially designed for investigating the behaviour of steam under various conditions; the cylinders are 6½ inches, 9 inches, 13 inches and 18 inches in diameter, and the stroke of all the pistons is 15 inches. The cylinders can be so connected as to allow of working as a simple, compound, triple, or quadruple expansion engine, either condensing or non-condensing, and with any desired rate of expansion. The jackets are so fitted as to permit of measuring in-

the usual accompaniment of starting boxes, controllers, rheostats for absorbing power, etc.

(*d*) High Tension Laboratory.—This laboratory is equipped with a D.C.–A.C. motor generator set and four 10 K.W. 200-50,000 volt 60 cycle transformers, and one 5 K.W. 100-25,000 volt 60 cycle transformer, with switchboard and suitable controlling devices. Current and voltage transformers and 100,000 volt direct reading Kelvin electrostatic voltmeter are also provided.

(*e*) The Photometer Room.—This room is equipped with standard photometric apparatus for candle power measurements of arc and incandescent lamps.

(*f*) Oscillograph Laboratory.—This laboratory is equipped with a Blondel triple oscillograph, complete with photographic attachments.

## GEODETIC LABORATORY.

The equipment of this laboratory consists of:—

(1) Linear instruments: A Rogers comparator and standard bar for investigating standards of length; a fifty-foot standard and comparator for standardizing steel bands, chains, tapes, rods, etc.; a Munro-Rogers linear dividing engine.

(2) Circular instruments: A Rogers' circular comparator; four level triers.

(3) Time: An astronomical clock and clock circuit in connection with the observatory clocks; chronometers running on mean and sidereal time; chronograph.

(4) Gravity: A portable Bessel's reversible pendulum apparatus with special pendulum clock and telescopic apparatus for observing coincidences of beats.

(5) A water gauge apparatus for testing aneroid barometers.

The laboratory and clock rooms are constructed with double walls and enclosed air spaces, and their heating is controlled by special thermostats, so that the temperature within may be brought to, and held at, any desired degree.

### Astronomical Observatory.

The observatory equipment for the purpose of instruction in practical Astronomy consists of:—

A Bamberg prismatic transit with zenith attachment; five astronomical transits for meridian observations; a Troughton & Simms zenith telescope; sidereal and mean time clocks and chronometers; Chronograph and electrical circuits by which observations and clock comparisons within or without the observatory may be made.

## HYDRAULIC LABORATORY.

In this laboratory the student studies experimentally the laws governing the flow of liquids through orifices, pipes, weirs, etc., and also carries out experiments on the efficiency of various forms of water motors running under different conditions as regards head and supply.

The equipment includes:—Apparatus for the measurement of the discharge of water from orifices, nozzles, weirs, etc., under varying conditions; arrangements for investigation of the loss of head by surface

friction, and at curves and bends in pipes; Venturi meter for use at different discharges; a hydraulic ram working against different heads; various water motors, including Pelton wheels, Girard impulse turbine, Brotherhood three cylinder rotary engine, Thomson inward flow reaction turbine, American turbine; apparatus for measurement of pressure due to impact of jets on surfaces of different forms; gauge testing appliances; Hele Shaw's apparatus for study of the stream lines in a perfect fluid, illustrating the flow round obstructions in a channel, lines of stress in plates, and numerous magnetic problems; numerous calibrated tanks, weighing appliances, and measuring apparatus in connection with the above.

## MECHANICAL ENGINEERING LABORATORIES.

These laboratories are used in connection with the courses in Mechanical Engineering subjects. The smaller apparatus belonging to the laboratories includes the necessary equipment of weighing machines, brakes, calorimeters, thermometers, gauges, pyrometers, fuel testers, indicators, planimeters, etc.

1. Mechanical Laboratory—The equipment of this laboratory includes:—

A belt testing machine capable of taking a six-inch belt at 15 feet centres (the machine has special hydraulic dynamometers and a friction brake and will absorb 15 H.P.); a Thurston railway-pattern oil tester, fitted with water cooling and heating apparatus for varying the temperature of the brasses as desired; an Engler standard viscosimeter, and other necessary apparatus for the physical testing of lubricants.

A "Dake" steam engine of 4 H.P.

A single speed horizontal engine having a cylinder 6 inches diameter and 9 inches stroke, and operated by compressed air.

A gas-fired preheater for the above engine.

A standard 9½ inch Westinghouse air brake pump, fitted for testing and for supplying compressed air for experimental and other purposes.

A non-rotative Blake steam pump, having steam and water cylinders 4½ and 2¾ inches diameter and 4½ inches stroke.

A complete air brake installation for locomotive, tender and cars.

Apparatus for measuring the heat loss from pipe coverings and from radiators.

A specially designed hydraulic support and fittings for carrying out experiments on the action of cutting tools in the lathe.

Apparatus for experiments on the efficiency of pulleys and hoisting appliances; on the efficiency of worm and other gearing; for governor testing; for testing fans and blowers; for studying problems connected with the balancing of reciprocating engines.

2. Steam Engine Laboratory:—

The steam Laboratory is furnished with an experimental steam engine of 120 I. H.P., specially designed for investigating the behaviour of steam under various conditions; the cylinders are 6½ inches, 9 inches, 13 inches and 18 inches in diameter, and the stroke of all the pistons is 15 inches. The cylinders can be so connected as to allow of working as a simple, compound, triple, or quadruple expansion engine, either condensing or non-condensing, and with any desired rate of expansion. The jackets are so fitted as to permit of measuring in-

dependently the water condensed in the cover, barrel, or bottom jacket of each cylinder, and the engine can be worked with any desired initial pressure up to 200 lbs. per square inch. The measurements of heat are made by means of large tanks, which receive the cooling water and the condensed steam. There is an independent surface condenser and air pump. Two hydraulic absorption brakes and an alternative friction brake serve to measure the mechanical power developed.

This Laboratory also contains the following machinery:—

A Robb automatic cut-off engine, having a cylinder 10½ inches in diameter by 12 inches stroke. This engine is specially fitted up for the measurement of cylinder temperatures, and can be run at speeds up to 300 revolutions per minute.

An automatic high speed engine by Macintosh & Seymour, having a cylinder 12 inches in diameter by 12½ inches stroke. In connection with this engine there is an automatic recording apparatus for registering the load on the brake.

A Leonard horizontal engine, having a cylinder 8 inches diameter by 9 inches stroke, specially fitted for instructional work in valve setting and provided with an independent surface condenser.

A two stage air compressor (built in the workshops of the Department) taking 40 H.P., and having cylinders 10 inches and 17 inches in diameter, by 15 inches stroke. The compressor delivers its air into reservoirs placed beneath the floor of the machine shop, and is provided with an intercooler whose capacity can be varied as desired.

A 15 K.W. Curtis steam turbo-generator with independent surface condenser and air pump.

A 12 H.P. high speed forced lubrication compound engine (built in the workshops of the Department). Steam is supplied to this laboratory by the boilers in the Workman Building. These consist of one 100 H.P. locomotive boiler, Belpaire type, two Babcock and Wilcox water-tube boilers, each 60 H.P., and one Yarrow water-tube boiler, fitted in a closed stokehold, for working under forced draft, rated at 100 H.P.

These boilers are fitted with the necessary tanks, weighing machines and apparatus for carrying out evaporative tests.

3. Gas Engine Laboratories. This Laboratory contains:½

A horizontal gas engine by the National Gas Engine Company, having a cylinder 12 inches diameter by 20 inches stroke, and developing 40 B.H.P.

A suction-type producer for the above, with the necessary scrubbers and gas cleaning apparatus.

A down draft producer designed for working with lignite and bituminous coal.

A standard 4 inch gas meter, gasometer, and exhauster.

An Otto type gas engine (built in the workshops of the Department), having a cylinder 8½ inches diameter by 12 inches stroke, and giving 10 B.H.P., with city gas.

A two cylinder 4 cycle gasoline engine (built in the workshops of the Department), and giving 8 B.H.P.

A 4 H.P. Blackstone oil Engine.

## METALLURGICAL AND ASSAYING LABORATORIES.

These consist of a large furnace room of 2,200 sq. feet, for metallurgical operations, a furnace room for assaying of 1,300 sq. feet, a balance room, small chemical laboratory, and parts of other rooms, which are utilized for pyrometric and photo-microscopic work. The

furnace room is fitted with a water-jacket blast-furnace, 21 inches inside diameter, for smelting lead and copper ores; also a hand reverberatory furnace for roasting ores, having a hearth 14 ft. by 6 ft., a Bruckner roasting furnace, and a small gas producer.

The furnace room adjoins the milling and ore dressing room (see below) and ores which have been crushed and dressed can easily be conveyed into the furnace room for roasting, smelting or leaching treatments.

In addition to this comparatively large scale plant, apparatus is being provided to enable the students to study in detail the more important metallurgical operations using quantities of ore or metallurgical products of usually not more than a few pounds in weight. With such appliances the work of the student can be of a more individual character than is generally possible with large scale plants, and the reactions which occur can be more easily and exactly studied.

For the purpose of small scale work there is a large crucible furnace which can be used with either natural or forced draught, a large gas furnace which can be used either as an oven furnace or a muffle furnace, and a number of small muffle and crucible furnaces in the assaying laboratory.

Small blast-furnaces, lined with brick, have been constructed, and used successfully for smelting small quantities of copper and Cobalt ores. A Roots' blower has been provided for the blast furnaces, and connections for supplying forced draft have been made to the gas and reverberatory furnaces. Leaching operations on a small scale are conducted in stoppered bottles which can be agitated by machinery.

Provision has recently been made for electric furnace work. The plant consists of a 50 H.P. motor, 30 K.W. alternating current generator and transformer with measuring instruments. A Colby induction furnace and a Heroult arc furnace have been installed for making steel electrically, and the smelting of ores and other electric furnace operations can be carried on satisfactorily with this plant. A low voltage 1 H.P. direct current generator is employed for electrolytic operations.

A powerful hydraulic press and a piece of apparatus for compressing gases by hydraulic power are available for experiments that have to be conducted under great pressure.

A small drop-testing machine has been constructed for investigating the mechanical properties of metals.

The Assaying Laboratory is equipped with a soft coal assay furnace, and with a number of muffle and crucible furnaces fired with coke. The large gas muffle furnace in the furnace room is also available for assaying purposes, and there is a small muffle furnace and a crucible furnace fired by gasoline.

Adjoining the assaying laboratory is the balance room and a small laboratory for chemical work.

In another room are a number of electrical pyrometers of both the Le Chatelier and Callendar type, and a micro-photographic outfit for recording the microscopic structure of metals and alloys. A polishing machine, worked by power has been installed to prepare the specimens for examination.

## MINING AND ORE-DRESSING LABORATORIES.

The Department of Mining Engineering has one large laboratory in two storeys for ore-dressing, and a number of rooms of moderate

size equipped for use as special laboratories, offices, lecture room, dark room, machine shop, etc. The effective floor space is about 8,500 square feet, in addition to which the departmental store rooms, ore bins, etc., have an area of 1,000 feet.

The ore-dressing laboratory proper has about 5,000 feet floor space and is 25 feet high in the centre.

It is equipped with two classes of apparatus. First, a large number of pieces especially designed for individual work on a small scale. Many of these are for elementary investigations and demonstrations of a theoretical nature, others are working reproductions on a reduced scale of typical ore-dressing and milling machines; secondly, a complete plant of standard apparatus for ore crushing, sampling, milling, concentrating and for coal washing. The apparatus has been chosen from the best designs in common use and whenever possible each important class of ore-dressing machinery is represented by two or more different types, in order that comparisons may be made. Each machine is so arranged that it may be used, tested and cleaned up independently, but when expedient, a number of machines can be connected by automatic conveyors and thus complete working plants of various kinds can be improvised, each of sufficient capacity to test large lots of material under approximately working conditions

In addition to the main laboratory there are excellent facilities for advanced and research work—including a thoroughly equipped analytic and assay laboratory and a photographic room. The department possesses an excellent Fuess petrographical microscope, a good set of weighing and measuring devices, and a number of pieces of special apparatus for advanced theoretical investigation.

The chief pieces of apparatus in the laboratory are rock-breakers of four kinds—Blake, Dodge, Gates, and Sturtevant, for coarse crushing; Gravity stamp mills of 600 and 950 lbs., respectively, and a small steam stamp for the fine crushing and amalgamating of gold ores: Huntington centrifugal roller mill, for crushing and amalgamating; high speed steel-tyred rolls for fine crushing; Sturtevant and Gates' grinders for preparing samples, and a number of ball mills, pebble mills and amalgamation pans for extremely fine grinding.

Following these there are Bridgman, Vezin, Jones and Brunton samplers, and a Callow belt screen and a series of trommels and hand and power shaking screens for sizing the crushed ores; two especially designed jigs of two and four compartments, with adjustable eccentric, cam and slide mechanisms, a pneumatic jig, a Taylor vibrating jig and several small hand and power jigs for coarse concentration; revolving, bumping and stationary tables; a stationary glass table; Frue vanner, Wifley table, Bartlett table, Bartlett canvas table, Bell's classifiers and feeders, etc., for separating valuable minerals contained in the fine sands and slimes; plates, pans and barrels for amalgamating gold and silver ores; vats and other apparatus for cyaniding, chlorinating and other leaching processes; spitzkasten, spitzlutte, magnetic separators, an electro static separator, coal washers, dolly tubs, and various other special pieces of ore dressing apparatus.

An hydraulic lift and a number of belt and bucket and hydraulic jet elevators, feeders, samplers, etc., are provided for use in heavy continuous work. The power chiefly used is electricity, generated in the University power and light station, and utilized through a number of electric motors aggregating 60 H.P. conveniently placed near the

machines to be operated, but steam is used for some pieces of apparatus and others may be driven by a pelton wheel. A belt driven air compressor of 7½ H.P. recently installed in the laboratory provides an ample supply of compressed air. The department is equipped with suitable apparatus for electrical measurements, and is thus able to make continuous and accurate determinations of the amount of power used by each machine.

## PETROGRAPHICAL LABORATORY.

The Petrographical Laboratory, containing the chief rock collections of the University, is situated in the Chemistry and Mining building, and is arranged for the use of students in the Mining Course as well as for those desirous of taking advanced work, such as Graduate students and those taking Honour Courses in Arts. It is provided with a number of petrographical miscropes by Seibert, Crouch, and Fuess, as well as with models, sets of thin sections, electromagnets, heavy solutions, etc., for petrographical work.

A collection of typical rocks has been especially prepared for the use of students and a complete equipment for cutting, grinding, and polishing rocks, has been installed, which runs by electric power and gives excellent facilities for the preparation of thin sections for microscopic use.

For advanced work and pretrographical investigation Dr. Adams' extensive private collection of rocks and thin sections is available for purposes of study and comparison.

## THE PHYSICAL LABORATORIES.

The equipment of the Macdonald Physical Laboratories comprises: (1) apparatus for illustrating lectures; (2) simple forms of the principal instruments for use by the students in practical work; (3) various types of all important instruments for exact measurements, to be used in connection with special work and research.

The Magnetic Laboratory contains magnetic instruments and variometers of different patterns, and also a duplicate of the B. A. Electric-dynamometer. The laboratory on the opposite side of the basement contains a Lorenz apparatus for the absolute measurement of resistance, constructed under the supervision of Prof. Viriamu Jones.

There is a Constant Temperature Room, surrounded by double walls, which contains a Standard Rieffler Clock, and is fitted for comparator work.

The main Electrical Laboratory is a room 60 feet by 40, and is fitted with a number of brick piers, which come up through the floor. and rest on independent foundations, in addition to the usual slate shelves round the walls. This room contains a large number of electrometers, galvanometers, potentiometers, and other testing instruments of various patterns, and adapted for different uses. It connects with a smaller room at the side in which are kept the resistance boxes and standards, and also the capacity standards. Three small research laboratories adjoin the electrical laboratory.

On the first floor of the building there is the Heat Laboratory, devoted to advanced work in thermometry, pyrometry and calorimetry

and also to such electrical work as involves the use of thermostats and the measurement of the effects of temperature.

The third floor contains the Elementary Laboratory, a room 60 feet square, devoted to elementary practical work in heat, sound, light, electricity and magnetism. There is a demonstrators' room adjoining, and an optical annex devoted to experiments with lenses, galvanometers, etc., which require a darkened room. On the other side of the building there is a spectroscopic room, containing a six-inch Rowland grating, with mountings by Brashear, and other large spectrometers and polarimeters; also a series of smaller optical rooms, including a photometric room, especially fitted for Arc photometry, and a dark room for photographic work.

A special elementary laboratory for the First Year Medical and Arts students has been fitted up in the attic.

## STRENGTH OF MATERIALS LABORATORIES.

These laboratories are equipped with apparatus for the determination of the physical properties of the materials of construction and for illustrating the fundamental laws of the strength of materials. The equipment includes:—

(*a*) A Riehlè testing machine of 60,000 lbs. capacity, a Wicksteed 100-ton and an Emery 50-ton machine for testing the tensile, compressive and transverse strength of the several materials of construction. To the Wicksteed has been added a specially designed arrangement, by which the transverse strength of girders and beams up to 26 ft. in length can be determined. Special holders have also been designed and made in the laboratory for investigating the tensile and shearing strength of timber, and for the testing of wire ropes, belts, etc.

(*b*) An Impact Machine, with a drop of 30 ft., and with gearing which will enable specimens to be rotated at any required speed, and the blows to be repeated at any required intervals. By means of a revolving drum, a continuous and accurate record of the deflections of the specimens under the blows can be obtained.

(*c*) A Torsion Machine with a specially designed angle-measurer, by which the amount of the torsion can be measured with extreme accuracy.

(*d*) An Accumulator, furnishing a pressure of 3,600 lbs. per square inch, which is transmitted to the several testing machines, and ensures a perfectly steady application of stress, an impossibility when any form of pump is substituted for an Accumulator. An automatic electric motor has been designed in the laboratory and constructed for the purpose of actuating the accumulator.

(*e*) A Blake and a Worthington Steam Pump, designed to work against a pressure of 3,600 lbs. per square inch. The Accumulator may be actuated by either of the pumps, and, if at any time it is necessary to do so, either of the pumps may be employed to actuate the testing machine direct. When in operation the work of the pump and the accumulator is automatic.

(*f*) Extensometers of the Bovey, Ewing, Unwin, Martens, Marshall and other types.

(*g*) Portable cathetometers, and also a large cathetometer specially designed and constructed for the determination of the extensions, compressions and deflections of the specimens under stress in the testing machines.

(*h*) Various electric motors for working the several machines.

(*i*) A drying oven for beams up to 26 ft. in length. The hot air in this oven is kept in circulation by means of a fan driven by an electric motor.

(*j*) Numerous gauges, amongst which may be specially noticed an Emery pressure gauge, graduated in single lbs. up to 2,500 lbs. per square inch. All of the testing machines are on the same pressure circuit, and are connected with the Emery gauge and also other standard gauges, including recording gauges. This arrangement provides a practically perfect means of checking the accuracy of the testing.

(*k*) Special apparatus and recording gauge for the testing of hose, etc.

(*l*) Dynamometers for measuring the strength of textile fabrics, the holding power of nails, etc.

(*m*) Apparatus for determining the elasticity of long wires.

(*n*) Apparatus for determining the hardness of materials of construction.

(*o*) Zeiss and other microscopes.

(*p*) Delicate chemical and other balances. A very important part of the equipment is the Oertling balance, capable of indicating with extreme accuracy weights of from .00001 lb. up to 125 lbs.

(*q*) Apparatus for the microscopic study of metals and for microscopic photography.

(*r*) Micrometers of all kinds.

(*s*) A transverse bending machine which is adapted for loads up to 3,000 lbs. and for beams of 10 ft. span and a testing machine for applying bending and torsion simultaneously.

BULLETIN

OF

# McGILL UNIVERSITY

MONTREAL.

---

## ANNOUNCEMENT

OF

## THE FACULTY OF LAW

---

FOR SESSION 1911-1912

---

MONTREAL

PRINTED FOR THE UNIVERSITY BY THE GAZETTE PRINTING CO., LIMITED

1911

# INDEX.


| | PAGE. |
|---|---|
| Administrative Officers | 3 |
| Admission Requirements | 6, 21 |
| Advisory Committee | 10 |
| Agency | 15 |
| Bar Regulations | 21 |
| Bibliography | 14 |
| Calendar | 2 |
| Civil Procedure | 16 |
| Commercial Law | 16 |
| Constitutional Law | 13 |
| Contracts | 16 |
| Corporations | 15 |
| Course of Study | 11 |
| Criminal Law | 16 |
| D. C. L., Requirements for | 19 |
| Entrance Requirements | 6 |
| Evidence | 19 |
| Fees | 7 |
| Gifts | 16 |
| International Law | 18 |
| Joint Stock Companies | 15 |
| Lease | 16 |
| Lectures, Courses of | 13 |
| Lecture Time Tables | 4 |
| Legal History | 14 |
| Marriage Covenants | 16 |
| Matriculation | 6 |
| Medals | 7 |
| Municipal Law | 16 |
| Obligations | 14 |
| Officers of Administration | 3 |

| | Page. |
|---|---|
| Officers of Instruction | 1 |
| Partnership | 15 |
| Persons | 15 |
| Pleading and Practice | 18 |
| Prescription | 16 |
| Prizes | 7 |
| Professors | 1 |
| Real Property Law | 17 |
| Registration | 6 |
| Roman Law | 13 |
| Substitutions | 16 |
| Successions | 16 |
| Time Tables | 4 |

# FACULTY OF LAW.

(Macdonald Foundation.)

THE PRINCIPAL.

F. P. WALTON, B.A. (Oxon.), LL.B. (Edin,), LL.D. (Aberdeen).
*Dean of the Faculty of Law and Gale Professor of Roman Law.* 552 Pine Ave. W.

ARCHIBALD MCGOUN, M.A., B.C.L., K.C.
*Professor of Civil and Municipal Law.* 157 St. James Street.

W. DE M. MARLER, B.A., D.C.L.
*Professor of Civil Law.* 288 Peel Street.

HON. CHARLES J. DOHERTY, D.C.L.
*Professor of Civil, Commercial and International Law.* 282 Stanley Street.

HON A. G. CROSS, B.A, B.C.L., K.C.
*Professor of Commercial Law.* Metcalfe Ave., Westmount.

HON. CHARLES PEERS DAVIDSON, M.A., D.C.L.
*Professor of Criminal Law.* The Linton Apartments, Sherbrooke Street

R. C. SMITH, B.C.L., K.C.
*Professor of Commercial Law.* 4280 Dorchester St., Westmount.

AIMÉ GEOFFRION, B.C.L., K.C.
*Professor of Civil Law.* 50 Durocher Street.

GORDON W. MCDOUGALL, B.A., B.C.L., K.C.
*Professor of Commercial Law.* New York Life Building.

*(The above Professors constitute the Faculty of Law.)*

OTHER OFFICERS OF INSTRUCTION.

E. FABRE SURVEYER, B.A. (Laval), B.C.L.
*Lecturer in Pleading and Practice.* Banque Nationale Building.

ARNOLD WAINWRIGHT, B.C.L.
*Lecturer on the Law of Evidence.* 156 Metcalfe St.

## CALENDAR FOR 1911-1912.

| | |
|---|---|
| 1911<br>Saturday,<br>May 20th. | Last date for receiving applications for the Matriculation Examination at outside centres in June. |
| Monday,<br>June 12th. | Matriculation Examinations begin. |
| Wednesday,<br>September 6th. | Registration of students previously enrolled. |
| Thursday,<br>September 7th. | Lectures begin for Second and Third Year students in Law. |
| Thursday,<br>September 14th. | Last date for receiving applications for the September Matriculation Examination. |
| Thursday,<br>September 21st. | Matriculation Examination begins (held only at the University and Affiliated Colleges). |
| Friday,<br>September 29th. | Registration of new students in Molson Hall. |
| Monday,<br>October 2nd. | First Year Lectures begin. |
| Thursday,<br>December 21st. | Christmas vacation begins. |
| 1912<br>Thursday,<br>January 4th. | Second term opens. |
| Wednesday,<br>February 21st. | Ash Wednesday. No lectures. |
| Friday,<br>April 5th. | Good Friday. No lectures. |

| | |
|---|---|
| Friday, April 12th. | Last day of lectures in Law. |
| Friday, May 10th. | Convocation for conferring Degrees in Law. |

---

## UNIVERSITY OFFICERS OF ADMINISTRATION.

W. Peterson, M.A., LL.D., Principal.

F. P. Walton, B.A. (Oxon.), LL.B. (Edin.), LL.D. (Aberdeen), Dean.

W. Vaughan, Secretary and Bursar.

J. A. Nicholson, M.A., Registrar.

---

# TIME TABLES OF LECTURES.

## FACULTY OF LAW.

## FIRST YEAR.

MONDAY, 2ND OCTOBER, 1911, TO FRIDAY, 16TH DECEMBER, 1911. (11 WEEKS).

| HOUR. | MONDAY. | TUESDAY. | WEDNESDAY. | THURSDAY. | FRIDAY. |
|---|---|---|---|---|---|
| 8.30 | Prof. McGoun. | Prof. Doherty. | Prof. McGoun. | Prof. Doherty | Prof. McGoun. (5 weeks.) Prof. Doherty. (5 weeks ) |
| 4.00 | The Dean. (Constitutional) | The Dean. (Roman.) | The Dean. (Roman.) | The Dean. (Law of Damages.) | The Dean. (Roman ) |
| 5.00 | Prof. Marler. | Prof. Marler. | Prof. Marler. | | Prof. Marler. |

THURSDAY, 4TH JANUARY TO THURSDAY, 18TH APRIL—(15 WEEKS).

| HOUR. | MONDAY. | TUESDAY. | WEDNESDAY | THURSDAY. | FRIDAY. |
|---|---|---|---|---|---|
| 8.30 | Prof. Surveyer. | Prof. MacDougall | Prof. Surveyer. | Prof. MacDougall | Prof. Surveyer. |
| 4.00 | Constitutional | Roman. | Roman. | Damages. | Roman. |
| 5.00 | Prof. Davidson (3 weeks.) | Prof. Surveyer. | Prof. Davidson. (3 weeks.) | Prof. Davidson. (3 weeks.) | Prof. Davidson (3 weeks.) |

Prof. Doherty will arrange for his lectures on International Law, which will taken by the First and Second Years together.

# TIME TABLES OF LECTURES.

FACULTY OF LAW.

SESSION 1911-1912.

SECOND AND THIRD YEARS.

(THURSDAY, 7TH SEPT. TO FRIDAY, 29TH SEPT.)

| HOURS. | MONDAY. | TUESDAY. | WEDNESDAY. | THURSDAY. | FRIDAY. | SATURDAY. |
|---|---|---|---|---|---|---|
| 8.30 | Prof. Doherty. | Prof. Doherty. | Prof. Doherty. | Prof. Doherty | Prof. Doherty | Prof. Doherty |
| 4.00 | Prof. Doherty. | Prof. Doherty | Prof. Doherty. | Prof. Doherty. | Prof. Doherty | |
| 5.00 | Prof. Doherty | Prof. Doherty. | Prof. Doherty. | Prof. Doherty. | Prof. Doherty | |

MONDAY, 2ND OCT. TO FRIDAY, 15TH DECEMBER—10 WEEKS AND 3 DAYS.

| HOURS. | MONDAY. | TUESDAY. | WEDNESDAY. | THURSDAY. | FRIDAY. | SATURDAY. |
|---|---|---|---|---|---|---|
| 8.30 | Prof Geoffrion. | *Prof. Doherty. | Prof. Geoffrion. | Prof. Doherty. | Prof. Doherty. (6 weeks.) Prof. Geoffrion. (4 weeks.) | Prof. Doherty |
| 4.00 | Prof. Cross. | Prof. Doherty. | Prof. Cross. | The Dean. (Law of Damages.)† | Prof. Cross. | |
| 5.00 | Prof. Davidson. | Prof. Smith. | Prof. Davidson. | Prof. Smith. | Prof. Davidson. | |

THURSDAY, 4TH JANUARY TO THURSDAY, 18TH APRIL—(15 WEEKS)

| HOURS. | MONDAY. | TUESDAY. | WEDNESDAY. | THURSDAY. | FRIDAY. | SATURDAY. |
|---|---|---|---|---|---|---|
| 8.30 | Prof. Geoffrion | Prof. McGoun | Prof. Geoffrion | Prof. McGoun. | Prof. Geoffrion. | Prof. Doherty |
| 4.00 | Prof. Marler. | Prof. Marler | Prof. Marler | The Dean (Damages.) | | |
| 5.00 | Prof. Davidson (4 weeks) Prof. Wainwright (10 weeks) | Prof. Smith | Prof. Davidson (4 weeks) Prof. Wainwright (10 weeks) | Prof. Smith | Prof. Davidson (4 weeks) Prof. Wainwright (10 weeks) | |

*Prof. Doherty's lectures on International Law will be given to the First and Second Years together, at such hours as shall be arranged

†Second Year only.

# ENTRANCE REQUIREMENTS AND REGISTRATION.

## 1. MATRICULATION

Particulars regarding the Matriculation Examination are given in the General Announceent on pages 13 to 30.

*No application for examination in June will be received after May 20th.*

The attention of students who intend to practise law in the Province of Quebec, or to be admitted to the notarial profession, is called to the statutory requirements for admission to study. These will be found on page 21.

## 2. REGISTRATION.

1. All candidates entering the Faculty of Law for the session 1911-1912 are required to register at the office of the University Registrar between September 25th and September 30th, 1911. The act of registration consists in giving such information of a personal nature as may be necessary for the University records, of registering for the several classes, which are to be taken during the session, and of subscribing to the following declaration in the matricula or register:—

"I hereby accept and submit myself to the statutes, rules, regulations and ordinances of McGill University, and of the Faculty or Faculties in which I am registered, and to any amendments thereto which may be made while I am a student of the University, and I promise to observe the same."

Students previously enrolled will register in the Registrar's Office between September 4th and September 7th, when the lectures for Second and Third Year students begin. Those who have failed to register at the times specified above will be permitted to do so within a limited time thereafter.

# PRIZES, MEDALS AND FEES.

## 1. PRIZES AND MEDALS.

1. An Exhibition, of the value of $50 per annum—to be known as the Alexander Morris Exhibition—has been founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, Ont., and will be awarded to the student who obtains the highest standing in the Second Year.

2. Various money prizes are awarded to the students of each year who obtain the highest distinction at the examinations held at the close of the session. No prize will, however, be awarded to any student unless a sufficiently high standing is attained.

3. The Elizabeth Torrance Gold Medal is awarded to the student who obtains the highest marks in the final examinations, provided that his answers are, in the estimation of the Faculty, of sufficient merit to entitle him to this distinction.

## 2. FEES.

| | |
|---|---|
| Registration Fee | $ 5.00 |
| Sessional fee (including fee for athletics) for the undergraduate course | 80.00 |
| Athletics' fee, payable by Partial Students | 3.00 |
| Graduation fee† | 12.50 |

(Students who were in attendance as undergraduates in this Faculty during the session 1910-1911, or previously, will be allowed to complete their course on payment of $60 per session).

Students taking the six year Double Course in Arts and Law shall pay full fees for each of the four years in Arts and full fees for each of the three years in Law.

† When this Degree is conferred in absentia an extra fee of $20.00 will be exacted, unless the candidate has been specially exempted by the Faculty.

Fees for Partial Students:—

| | |
|---|---|
| For course in Roman Law | $20.00 |
| For each of the following courses: Successions, Criminal Law, Commercial Law, Obligations, Civil Procedure | 15.00 |
| For each of the shorter courses | 10.00 |

Caution Money.—Every student is required to deposit with the Bursar the sum of $5, as caution money, to cover damage done to furniture, loss of books, etc. This amount, less deductions (if any), will be returned at the close of the session.

| | |
|---|---|
| Fee for the Degree of D.C.L. | $80.00 |

# GENERAL INFORMATION.

The lectures are delivered in the rooms furnished for the Faculty in the east wing of McGill College by its munificent benefactor, Sir Wm. C. Macdonald.

Students have the free use of the Law Library of the Faculty, to which large additions are continually being made, those lately added including, among many others, the Ontario Reports, the Nova Scotia Reports, Dalloz, Recueil Périodique, Campbell's Ruling Cases, the Encyclopædia of the Laws of England, the new series entitled "The English Reports," the American and English Encyclopædia of Law and the American and English Encyclopædia of Pleading and Practice. The Library now contains all the Reports of the several Provinces of Canada. The principal reports and legal periodicals are taken. A special room for Law students is provided in the University Library. This room is open during the day, and in the evenings from eight to ten o'clock.

## SPECIAL REGULATIONS.

1. The lectures will be delivered between the hours of half-past 8 and half-past 9 in the morning, and between 4 and half-past 6 in the afternoon; and special lectures in the evening at such hours and in such order as shall be determined by the Faculty. Professors shall have the right to substitute an examination for any such lecture.

2. Undergraduates shall be known as of the first, second, or third year, and shall be so graded by the Faculty. In each year, students shall take the studies fixed for that year, and those only, unless by special permission of the Faculty.

3. At the end of each college year there shall be a general examination of all the classes, under the superintendence of the professors, and of such other examiners as may be appointed by the Corporation. The examination shall be conducted by means of printed questions, answered by the students in writing in the presence of the examiners.

4. At the end of the third college year there shall be a final examination of those students who have completed the curriculum. This examination shall be conducted by written

papers, which may be supplemented by an oral examination. It shall cover all the subjects upon which lectures have been delivered during the three years' course. Those students who satisfy the examiners shall be entitled, after making the necessary declaration and payment of the graduation fee, to proceed to the degree of B.C.L. There shall be no sessional examination of students who are candidates in the final examination.

5. No student shall be considered as having kept a session unless he shall have attended regularly all the courses of lectures, and shall have passed the sessional examinations to the satisfaction of the Faculty in the classes of his year.

6. The Faculty shall have the power upon special and sufficient cause shown, to grant a dispensation to any student from attendance on any particular course or courses of lectures, but no distinction shall in consequence be made between the examinations of such students and those of the students regularly attending lectures.

7. On the following days, when they fall within the session, no lectures will be delivered, viz.: Ash Wednesday, Good Friday, Easter Monday, and Thanksgiving Day. On the following days the morning lectures will be omitted, viz.: All Saints' Day (Nov. 1st), and Conception Day (Dec. 8th).

### ADVISORY COMMITTEE.

The attention of the McGill Law Faculty has been drawn to the fact that students commencing their undergraduate course frequently need information with regard to law offices in which their services would be welcomed. For the purpose of furnishing such information and also of assisting the graduates of the Law school to obtain suitable positions in offices needing legal assistance, a number of members of the Bar have been kind enough to form themselves into an Advisory Committee. Members of the Bar desiring the assistance of students or young graduates are requested to communicate with the Secretary of this Committee, Mr. C. M. Cotton, B.A., B.C.L. The Committee consists of the following gentlemen:—

C. J. Fleet, B.A., B.C.L., K.C.; W. J. White, M.A., D.C.L., K.C.; E. E. Howard, B.A., B.C.L.; Lawrence McFarlane, B.A., B.C.L.

# THE COURSE OF STUDY.

The course extends over three years. It includes lectures upon all the branches of the Law administered in the Province of Quebec, and also upon Roman Law, Legal History, and the Constitutional Law of England, and the Dominion. Its primary design is to afford a comprehensive legal education for students who intend to practise at the Bar of the Province. In all the courses the attention of students is directed to the sources of the Law, and to its historical development.

The subjects studied in the different years are as follows:—

### First Year.

Constitutional Law of Canada.
Criminal Law (Introductory Course).
History of Quebec Law.
Public and Private International Law (Introductory course).
Law of Persons.
Obligations (First and Second Years, alternately).
Pleading and Practice.
Real Property Law.
Roman Law.

### Second and Third Years.

(Alternately)

Agency and Partnership.
Civil Procedure.
Commercial Law (two courses).
Corporations and Joint Stock Companies.
Criminal Law.
Law of Evidence.
Marriage Covenants and Minor Contracts.
Obligations.
Public and Private International Law.
Real Property Law.
Successions, Gifts and Substitutions.

The Faculty desire to impress upon English students the great importance of obtaining a familiar knowledge of French. In the practice of the profession in this Province it is indispensable that a lawyer shall be able to write and speak French. The Faculty are determined to exact a high standard in this subject, and have passed a regulation to secure this end. Moot Courts are held from time to time in order to afford practice in the presentation of legal arguments.

Those students who are able to take the B.A. course before entering upon their legal studies are strongly recommended to do so. Those for whom this is impossible are advised to attend courses in the Faculty of Arts for two years.

# COURSES OF LECTURES.

## Roman Law.

PROFESSOR:—F. P. WALTON.

During the first part of the course the external history of the law from the early period to the codification of Justinian will be dealt with. The sources of the law will be described, and the gradual evolution explained by which the law of the city of Rome became fitted to be the law of the civilized world. A brief sketch will be given of the legal institutions of Rome in the first period and of the early constitutional history.

In the doctrinal part of the course matters mainly of antiquarian interest will be touched on but slightly. Those portions of the Roman Law which have been followed most closely in the existing law of the Province, *e.g.*, property, servitudes, pignus and hypothec, and obligations, will be treated in detail, and the modifications made by the modern law will be noticed. Class-examinations will be held from time to time, and a first and second prize in books will be given to the two students who obtain the highest marks in these examinations.

*Text books*:—For the historical part, Walton's Historical Introduction to the Roman Law; and for the Institutes, Moyle's or Sandar's Institutes of Justinian, or Girard, Manuel de Droit Romain.

*Books of Reference*:—

Muirhead's Historical Introduction to Roman Law; Muirhead's Institutes of Gaius; Maynz, Cours de Droit Romain; Puchta, Institutionen; Maine's Ancient Law.

## Constitutional and Administrative Law.

PROFESSOR:—F. P. WALTON.

The object of this course is to show the actual working of the Canadian constitution. A sketch of the constitutional history prior to Confederation is given. The B. N. A. Act is explained, and the leading cases discussed which illustrate the respective powers of the Federal and of the Provincial Legislatures. The growth of Cabinet Government is traced, and some of the fundamental rules of the English Constitution

are expounded and contrasted with those followed in other countries.

No text-book is prescribed, but students are recommended to refer to Todd, Parliamentary Government in the British Colonies; Houston, Constitutional Documents of Canada; Dicey, Law of the Constitution; Anson, Law and Custom of the Constitution.

## Obligations—Advanced Course.

PROFESSOR:—F. P. WALTON.

Two alternate courses are delivered to students of the second and third years.

Their object is to explain important parts of the law of obligations in more detail than is possible in the general course on the subject.

The method is mainly the explanation of illustrative cases, Frequent references are made to French and English decisions.

## Legal History and Bibliography.

PROFESSOR:—ARCHIBALD MCGOUN.

This course comprises an outline of the history of the law in force in the Province of Quebec.

The main source from which our law is derived is the Customary Law of France, as modified by the principles of Roman Law, embodied in several of the codes or collections of Roman Law before the time of Justinian. The Customs of France after being reduced to writing were further modified by the influence of modern Roman Law, which prevailed throughout the larger part of France. The ordinances of the French kings and the commentaries of the great jurists, from Cujas and Dumoulin down to Pothier, brought the Civil Law of France into the systematic form in which it was administered in this Province. The Custom of Paris, one of the most important of those recognized in France, became formally the basis of the Civil Law in this country, and the ordinance of 1667 was the main authority for procedure.

Since the opening of the British régime the development of Lower Canadian Civil Law has proceeded independently of the Civil Law of France, where the Code Napoléon was passed early in the Century. In Lower Canada a code on the same lines was adopted shortly before Confederation. Lower Canadian Civil Law has been modified by English Law in

commercial matters, and also by statutes passed in the Province. The Criminal Law has been derived almost exclusively from the Criminal Law of England.

The leading authorities upon the main branches of the law, with the reports of decisions of our courts, are brought under the attention of the students in this course.

### Agency and Partnership.

PROFESSOR:—ARCHIBALD MCGOUN.

This course begins with the principles of the law of Mandate, as laid down in the Civil Code of Lower Canada, and treats of Civil and Commercial Agency. The rights and liabilities of principal and agent both between themselves and in relation to third parties is considered, and special attention is directed to the powers of agents in selling, pledging, and dealing with the property of the principal. The law relating to factors or commission merchants, brokers, and other agents is explained.

In partnership the right of each partner to bind his fellow partner in virtue of the mandate reciprocally given and enjoyed, leads to the distinction between civil and commercial partnership, and the limited partnership, or société en commandite, is also treated of. The distinction between partnership and joint stock companies leads to a consideration of the connexion between this subject and the subject of Companies and Corporations which form the subject matter of a course given in alternate years.

### Law of Corporations and of Joint Stock Companies.

PROFESSOR:—G. W. MACDOUGALL.

General course on organization of companies under the Dominion and Quebec Companies Acts. Nature of various securities; rights and powers of directors and shareholders; amalgamation and reorganization of companies; winding-up proceedings.

### Persons.

PROFESSOR:—G. W. MACDOUGALL.

This course covers the Law of acts of civil status, absentees, marriage, separation, divorce, filiation, minority and interdiction.

## Criminal Law.

PROFESSOR:—HON. MR. JUSTICE DAVIDSON.

This course includes:—

A history of the Criminal Law and Criminal Procedure of England, and of their introduction into and development throughout Canada; discussion of the Criminal Code and other statutes enacting criminal offences; of the rules of evidence in criminal cases; of the Fugitive Offenders' Act; of extradition; and, generally, of the principal features belonging to the Criminal Law of the Dominion.

## Commercial Law, I.

PROFESSOR:—R. C. SMITH.

The subjects dealt with will include commercial sales and the law of insurance.

The course on Insurance will cover:—

(*a*) Insurance, contracts of; (*b*) marine insurance; (*c*) fire insurance; (*d*) life insurance.

## Marriage Covenants and Minor Contracts, Prescription, Lease, and Municipal Law.

PROFESSOR:—A. GEOFFRION.

Two courses—in alternate years.

## Civil Procedure, II.

PROFESSOR:—HON. C. J. DOHERTY.

The advanced course for the second and third years covers all matters of procedure not dealt with in the first year course, and includes trial, provisional remedies, such as capias, attachment before judgment, injunction, etc., and special proceedings, such as proceedings relating to corporations, and public offices, mandamus, etc., as well as the rules of pleading in the more complicated classes of action. It will be divided into two parts, which will be taken in alternate years.

## Successions, Gifts and Substitutions.

PROFESSOR:—HON. C. J. DOHERTY.

Two courses—in alternate years.

I. The Law of Succession.

The course consists of a commentary and explanation of the whole of Title I, and the Third Chapter of Title II of the

Third Book of the Civil Code. The order followed by the Code in dealing with the different matters coming within the scope of this course has however been departed from, with a view of presenting to the student the law governing successions as one whole. The subject will be developed as nearly as possible in the following order:—

(1) General notions, definitions, and divisions of the subject; (2) the testamentary succession; (3) the ab-intestate succession; (4) rules of law common to both successions; (5) rules peculiar to the testamentary succession; (6) rules peculiar to the ab-intestate succession; (7) partition of the succession (and of property held in undivided ownership generally), its incidents and effects.

II. Gifts and Substitutions.

This course comprises a commentary on and explanation of Chapters I, II, and IV of Title II of the Third Book of the Civil Code, dealing with:

(1) Gifts inter vivos; (2) gifts in contemplation of death, as permitted in contracts of marriage; (3) substitutions.

## Real Property Law and Registration.

PROFESSOR:—W. DE M. MARLER.

FIRST YEAR COURSE:—25 *lectures.*

Registration of Real Rights—its objects; modes of registration; effect; the cadastral system.

SECOND AND THIRD YEAR COURSE:—50 *lectures, in alternate Courses.*

First Course:—Mode of acquisition of immoveables—25 lectures.

In this course, a deed of sale will be analyzed and its various clauses explained: the parties; the description and the measurement of land; the obligations of buyer and seller and the security for their performance; warranty, its modifications and results; the form and registration of the deed; the rights of the wife; the distinctions between sale and other modes of acquisition, and their effects on the parties; forced sales, their incidents and results; examination of titles, practically considered.

Second Course:—Privileges and hypothecs; servitudes—25 lectures.

Debts and causes of preference; characteristics of hypothecs—the various kinds, their history, conditions and effects; the ranking of hypothecs; the hypothecary action, its char-

acteristics, incidents and results; privileges on immoveables; registration of privileges and hypothecs; servitudes—natural, legal and conventional; water courses and streams; walls and fences.

### Public International Law.

PROFESSOR:—HON. C. J. DOHERTY.

Sovereignty and equality of independent states; recognition of belligerency and independence; justifiable grounds of intervention; modes of territorial acquisition; territorial boundaries; doctrine of exterritoriality; treaties and arbitrations; laws of war; neutrality of states and of individuals; laws of blockade; contraband; confiscation; prize-courts and their jurisprudence.

The students' attention will be specially directed to treaties, diplomatic relations, and international arbitrations, in which Canada is directly concerned.

### Private International Law.

PROFESSOR:—HON. C. J. DOHERTY.

Distinction between the *a priori* and positive methods; sources of the positive law of Quebec on the subjects; application and illustrations of the rules for solving conflicts of law in regard to the different titles of the Civil Code; comparisons between our jurisprudence and that of England, France and Germany.

These two courses will be given in alternate years.

### Pleading and Practice.

LECTURER:—E. FABRE SURVEYER.

This course of lectures deals with the different species of actions, their institution, the summoning of defendants and the pleadings necessary to complete the issues (C. P., 76 to 219); the most usual incidents, such as interventions (220 to 224), and continuance of suits (266 to 274); procedure in uncontested cases (418 to 420, and 532 to 535); amendments (513 to 526); putting in security (559 to 565); oppositions to the sale of moveables (644 to 654), oppositions for payment (670 to 676); cases of coercive imprisonment (832 to 836); abandonment of property (849 to 892); provisional measures (893 to 977); exemptions from seizure (598, 599, 1089); procedure before the Circuit Court (1126 to 1149), and in sum-

mary matters (1150 to 1162), and recourses against judgments (1163 to 1188).

It includes the schedules and rules of practice referring to the above mentioned articles, and forms of the most common kinds of pleadings.

### Evidence.

LECTURER:—ARNOLD WAINWRIGHT.

This course consists of an explanation of the main principles and rules of evidence in the civil and commercial matters governed by the provisions of the Civil Code.

The opening lectures will be devoted to an examination of the general principles regulating the proof of facts involved in judicial investigations relating to such matters. This will be followed by an analysis of the different kinds of evidence by means of which these facts may be proved, with an explanation of the special rules applicable to each kind. The concluding lectures will deal with the manner of producing evidence, with special reference to the examination and cross-examination of witnesses.

In the course of the lectures articles 1203 to 1244 of the Civil Code, and such articles of the Code of Civil Procedure as relate to the subject of Evidence, will be commented upon and explained.

## REQUIREMENTS FOR THE DEGREE OF D.C.L.

*(Adopted March,* 1891.)

Every candidate for the degree of D.C.L., in Course, must be a Bachelor of Civil Law of twelve years' standing, and must pass such examination for the degree of D.C.L. as shall be prescribed by the Faculty of Law. He shall also, at least two months before proceeding to the Degree, deliver to the Faculty twenty-five printed copies of a thesis or treatise of his own composition on some subject, selected or approved by the Faculty, such thesis to contain not less than fifty octavo pages of printed matter, and to possess such degree of merit as shall, in the opinion of the Faculty, justify them in recommending him for the Degree.

The examination for the Degree of D.C.L., in Course, shall, until changed, be on the following subjects and authors, with the requirement of special proficiency in some one of the groups below indicated. In the groups other than the one selected by the candidate for special proficiency, a thorough

acquaintance with two works of each group shall be sufficient, including in all cases the work first mentioned in each group and the first two works in the third group. In the first group one work on Public and one on Private International Law must be offered.

### 1. International Law.

A. Public:—

Twiss, Sir T., Law of Nations.
Hall, W. E., International Law.
Hartcourt, Sir W. V., Letters by *Historicus*.
Ortolan, T., Diplomatie de la Mer.
De Martens, Droit International.
Holland, Studies in International Law.

B. Private:—

Savigny, Private International Law (Ed. Guthrie).
Bar, Private International Law (Ed. Gillespie).
Foelix, Droit International Privé.
Laurent, Droit Civil International.
Brocher, Droit International Privé.
Fiore, Droit International Privé (Ed. Pradier-Fidéré).
Dicey, Conflict of Laws.
Story, Conflict of Laws.
Lafleur, E., Conflict of Laws.

### 2. Roman Law.

Maynz, Droit Romain.
Muirhead's Roman Law.
Girard, Manuel de Droit Romain.
Ortolan's Institutes (Ed. Labbé).
Savigny, Roman Law in the Middle Ages.
Cuq, Les Institutions Juridiques.
Puchta, Institutionen.
Krüger, Römische Rechtsquellen.
Roby's Introduction to the Digest.
Hunter's Roman Law.

### 3. Constitutional History and Law.

Dicey's Law of the Constitution.
Stubbs' Constitutional Law of England.
Hearn, Government of England.
Bagehot, English Constitution.
Franqueville, Gouvernement et Parlement Britanniques.
Gneist, Constitution of England.
Hallam, Constitutional History of England.
May, Constitutional History of England.
Gardiner, Constitutional History of England.
Freeman, Growth of the English Constitution.
Mill, Representative Government.
Anson, Law and Custom of the Constitution.

### 4. Constitution of Canada and Works Relevant Thereto.

Todd, Parliamentary Government in the British Colonies.
Bourinot, Federal Government in Canada.
Cartwright, Cases under the British North America Act.
Lord Durham's Report on British North America.
Lareau, Histoire du Droit Canadien.
Houston's Constitutional Documents of Canada.
Volume O., Statutes of Lower Canada.
Maseres' Collection of Quebec Commissions.
Viollet, Histoire du Droit Français.
Dilke, Problems of Greater Britain.
Bryce, American Commonwealth.
Cooley, Principles of Constitutional Law.
Curtis, History of the Constitution of the United States.

### 5. Criminal Law, Jurisprudence, and Political Science.

Stephen, History of the Criminal Law.
Blackstone, Vol. IV.
Harris, Principles of Criminal Law.
Holland, Elements of Jurisprudence.
Salmond's Jurisprudence.
Austin, Lectures omitting chapters on Utilitarianism.
Lorimer's Institutes.
Amos, Science of Law.
Woolsey, Political Ethics.
Lieber, Political Ethics.
Freeman, Comparative Politics.
Aristotle's Politics, by Jowett.

## APPENDIX.

The attention of intending students is called to the following provisions of the Revised Statutes of Quebec and amendments, as bearing on the requirements for the study and practice of Law in the Province.

### I. Regulations Applicable to those who Intend to Become Members of the Bar.

*N.B.—The articles are here abridged.*

Article 4522 R.S.Q.—Examinations for admission to study and to practise law in the Province of Quebec are held at the time and place determined by the General Council.

The examinations are held alternately in Montreal and Quebec every six months, namely, at Montreal, on the second Tuesday of each January, and at Quebec on the first Tuesday of each July.

All information concerning these examinations can be obtained from the Secretary-Treasurer of the General Council.

The present General Secretary is Mr. Victor Martineau, K.C., 13 St. James St., Montreal.

Article 4524.—Candidates must give notice as prescribed by this article at least one month before the time fixed for the examination, to the Secretary of the Section in which he has his domicile or in which he has resided for the past six months.

Article 4475.—This article provides that candidates holding the degree of Bachelor of Arts, Bachelor of Science, or Bachelor of Letters from any Canadian or British University are dispensed from the examination for admission to study. Such candidates are required to give the notice mentioned above.

Article 4526 R.S.Q. (as altered by by-law of the General Council).—On giving the notice prescribed by Article 4524, the candidate pays the Secretary a fee of $2, and makes a deposit of $125 for a complete certificate of admission to study; of $70 for a partial certificate of admission to study; and of $200 for admission to practice, which deposit, less $30, is returned in case of his not being admitted.

Article 4531.—To be admitted to practice, the student must be a British subject, and must have studied regularly and without interruption during ordinary office hours, under indentures before a notary as clerk, or student with a practising advocate, during four years, *dating from the registration of the certificate of admission to study.* This term is reduced to three years in the case of a student who has followed a regular Law Course in a university or college in this Province and taken a Degree in Law therein.

The Revised By-Laws passed by the General Council of the Bar of the Province of Quebec, passed the 14th December, 1907, provide as follows:—

Art. 53. A course of lectures on Law given and followed at a university or college in this Province, and a Diploma or Degree conferred on students by such university or college, shall be held to be such as contemplated in Art. 4531 R.S.Q. only when the university or college conferring the Degree and the student who receives it shall have efficiently followed the programme herein set forth.

A regular course of law in a university or college in the Province, shall be of seven hundred and fifty lessons of one hour each, on the subjects and in the proportions following:—

ROMAN LAW:—103 lectures:—This subject shall include an introduction to the study of Law and the explanation of and comments on the Institutes of Justinian and the principal Roman juriconsults.

CIVIL, COMMERCIAL, AND MARITIME LAWS—413 lectures:—Lectures on these subjects shall cover at least three years. They consist of the history of French and Canadian law, the explanation of and comments on the Civil Code of the Province of Quebec and the statutes relating to Commerce and Merchant Shipping.

CIVIL PROCEDURE:—103 lectures:—Lectures on this subject shall extend over at least two years. It shall consist of the explanation of and comments on the Code of Civil Procedure and the statutes amending it, the organization of the Civil Courts of this Province and the history of the different judicial systems of the country; also, the special modes of procedure provided by statutes and laws of general application.

INTERNATIONAL LAW, Private and Public:—21 lectures.

CRIMINAL LAW:—69 lectures:—This subject includes the history of criminal law in Canada, the constitution of criminal courts, criminal procedure, comments on statutes relating to criminal law, the relation of criminal law in Canada to the criminal law of England. The lectures shall extend over two years.

ADMINISTRATIVE AND CONSTITUTIONAL LAW:—41 lectures. —These subjects include an inquiry into the different political institutions and the public institutions of the country, the powers, organization and procedure of the Federal Parliament and of the Local Legislature, the laws on Education and the Municipal Code.

Art. 55.—Candidates for practice who hold a Degree in Law from a university or college in this Province shall produce with their notices a certificate from the principal or rector of such university or college to the effect that they have followed a course of lectures on Law in the same, during at least three years, in conformity with the by-laws of the Bar; and such certificate shall further specify the number of public lectures at which they shall have attended on each subject mentioned in the foregoing programme, during each of the said three years, and during the three years combined.

Art. 56.—The examiners shall not consider a university Degree in Law valid for the purposes of admission to the Bar if they find that the candidate has not in fact followed the programme above.

## II. Regulations Applicable to those who Intend to Become Notaries.

For the regulations applicable to candidates for the Notarial Profession, see Revised Statutes of Quebeec. Arts. 4774-4807.

# McGILL UNIVERSITY

## ANNUAL CALENDAR

# FACULTY OF MEDICINE

AND

## DEPARTMENT OF DENTISTRY

---

## EIGHTIETH SESSION

## 1911-1912

---

Montreal:

THE GAZETTE PRINTING COMPANY, LIMITED

1911.

D
D
D
I
E
D
E
D
C

# TABLE OF CONTENTS.


| | PAGE. |
|---|---|
| Alexandra Hospital | 106 |
| Almanac | 5 |
| Anatomy, Course in | 72 |
| Bacteriology, Courses in | 81 |
| Benefactors | 23 |
| Biology, Course in | 77 |
| Botany, Course in | 77 |
| Buildings, New | 36 |
| Chemistry and Physics, Course in | 73 |
| Clinical Chemistry, Course in | 74 |
| Clinical Instruction | 100 |
| Clinical Medicine, Course in | 85 |
| Clinical Microscopy, Course in | 87 |
| Clinical Surgery, Course in | 88 |
| Deceased Graduates | 184 |
| Dental Department | 121 |
| Dental Department, Instructors | 34 |
| Demonstrators and Assistant Demonstrators | 32 |
| Dermatology, Course in | 94 |
| Diploma of Public Health | 97 |
| Directory of Graduates | 139 |
| Directory of Bishop's Graduates | 197 |
| Diseases of Infants and Children, Course in | 91 |
| Double Courses | 95 |
| Embryology, Course in | 78 |
| Endowments | 39 |
| Equipment Fund, Subscribers | 26 |
| Equivalent Standing | 51 |
| Examination dates for Matriculation | 50 |
| Examinations, Regular Professional | 60 |
| Examination Regulations | 61 |
| Fees, Matriculation | 44 |
| Fees, Sessional | 54 |
| Fees, Summary of | 56 |
| Fellowships | 62 |
| Foundation and Early History | 35 |
| General Statement and Plan of Instruction | 70 |
| Governing Body of the University | 17 |
| Graduate and Advanced Courses | 96 |
| Graduates of Bishop's College Directory | 197 |
| Graduates in Dentistry, Directory | 183 |
| Graduates, Directory | 139 |
| Graduates, Directory of Deceased | 184 |
| Graduates in Public Health | 183 |
| Gynæcology, Course in | 91 |
| Histology, Course in | 78 |
| History of Medicine, Course in | 87 |
| Hospitals | 101 |
| Hospital Appointments | 118 |
| Hygiene, Course in | 83 |
| Hygiene, Special Courses in | 97 |

CONTENTS—Continued.


| | Page. |
|---|---|
| Lecturers | 31 |
| Library | 114 |
| Matriculation Examination Dates | 50 |
| Matriculation Fees | 44 |
| Matriculation Regulations | 40 |
| Matriculation Subjects | 44 |
| Medals and Prizes | 62 |
| Medical Jurisprudence, Course in | 83 |
| Medical Society, McGill | 117 |
| Medicine and Clinical Medicine, Course in | 85 |
| Members of Faculty, Lecturers, Demonstrators, etc | 29 |
| Mental Diseases, Course in | 94 |
| Microscopes, Rental and Purchase of | 64 |
| Montreal General Hospital | 102 |
| Montreal Maternity Hospital | 105 |
| Museums | 106 |
| Museum of Anatomy | 111 |
| Museum of Hygiene | 112 |
| Museum of Pathology | 107 |
| New Buildings | 36 |
| Obstetrics and Diseases of Infants, Course in | 90 |
| Officers of the University | 19 |
| Officers and Members of Faculty since its origin | 20 |
| Ophthalmology, Course in | 92 |
| Oto-Laryngology | 93 |
| Parasitology, Course in | 81 |
| Pathology and Bacteriology, Course in | 79 |
| Pharmacology and Therapeutics, Course in | 82 |
| Physics, Medical | 73 |
| Physiology, Course in | 75 |
| Physiological Chemistry, Course in | 76 |
| Prizes | 63 |
| Prizemen and Medallists | 132 |
| Public Health, Diploma of | 97 |
| Qualifications for the degree of M.D., C.M | 57 |
| Reciprocity with Great Britain | 53 |
| Registration | 51 |
| Registration in Great Britain | 53 |
| Requirements for License | 52 |
| Royal Victoria Hospital | 103 |
| Special Course in Hygiene for Civil Engineers, Architects, etc | 97 |
| Students, List of | 125 |
| Students in Dentistry | 131 |
| Surgery and Clinical Surgery, Course in | 88 |
| Text Books | 64 |
| Time-tables | 67 |
| Zoology, Course in | 78 |

# ALMANAC 1911-1912.

7th Month. JULY xxxi days. 1911.

| | | |
|---|---|---|
| 1 | S. | Dominion Day. |
| 2 | **S.** | |
| 3 | M. | |
| 4 | Tu. | Matriculation Exam. P.E.I. |
| 5 | W. | Matriculation Exam. C. P. & S., New Brunswick (at St. John). |
| 6 | Th. | Meeting of Board of Province of Quebec, (at Montreal). |
| 7 | F. | |
| 8 | S. | |
| 9 | **S.** | |
| 10 | M. | |
| 11 | Tu. | |
| 12 | W. | |
| 13 | Th. | |
| 14 | F. | |
| 15 | S. | Dr. W. Robertson died, 1844. |
| 16 | **S.** | |
| 17 | M. | |
| 18 | Tu. | |
| 19 | W. | |
| 20 | Th. | |
| 21 | F | |
| 22 | S. | |
| 23 | **S.** | |
| 24 | M. | |
| 25 | Tu. | |
| 26 | W. | |
| 27 | Th. | |
| 28 | F. | |
| 29 | S. | |
| 30 | **S.** | |
| 31 | M. | Dr. R. L. MacDonnell died, 1891. |

8th Month. AUGUST xxxi days 1911

| | | |
|---|---|---|
| 1 | Tu. | Professional Exams. Prov. of Alberta. |
| 2 | W. | |
| 3 | Th. | |
| 4 | F. | |
| 5 | S. | Duverney born, 1648. |
| 6 | S. | |
| 7 | M. | |
| 8 | Tu. | |
| 9 | W. | |
| 10 | Th. | |
| 11 | F. | |
| 12 | S. | |
| 13 | S. | |
| 14 | M. | |
| 15 | Tu. | Lavoisier born, 1743 |
| 16 | W. | |
| 17 | Th. | |
| 18 | F. | |
| 19 | S | |
| 20 | S. | |
| 21 | M. | |
| 22 | Tu. | Sir A. Cooper born, 1768 |
| 23 | W. | Saskatchewan Exams. |
| 24 | Th. | Matric. Exam. Prov. Med. Board of Nova Scotia |
| 25 | F. | |
| 26 | S. | Goethe born, 1749. |
| 27 | S. | |
| 28 | M. | |
| 29 | Tu. | |
| 30 | W. | |
| 31 | Th. | |

9th Month. SEPTEMBER xxx days. 1911.

| | | |
|---|---|---|
| 1 | F. | |
| 2 | S. | |
| 3 | S. | |
| 4 | M. | |
| 5 | T. | |
| 6 | W. | Nova Scotia Professional exams. |
| 7 | Th. | |
| 8 | F. | |
| 9 | S. | Galvani born, 1737.<br>Medical Matriculation, Manitoba. |
| 10 | S. | |
| 11 | M. | |
| 12 | Tu. | |
| 13 | W. | Matric. New Brunswick. |
| 14 | Th. | |
| 15 | F. | |
| 16 | S. | |
| 17 | S. | |
| 18 | M. | |
| 19 | Tu. | Register opens for students in Medicine. |
| 20 | W | |
| 21 | Th. | Meeting of Quebec Medical Board (Quebec) |
| 22 | F. | Matriculation Exam. Arts and Medicine McGill. |
| 23 | S. | |
| 24 | S. | |
| 25 | M. | Meeting of Governors.<br>Supplemental Exams. begin. |
| 26 | Tu. | |
| 27 | W. | |
| 28 | Th. | |
| 29 | F. | |
| 30 | S. | |

10th Month. OCTOBER xxxi days. 1911.

| | | |
|---|---|---|
| 1 | S. | |
| 2 | M. | Opening Lecture. |
| 3 | Tu. | Lectures begin. |
| 4 | W. | |
| 5 | Th. | Matriculation, P.E.I. |
| 6 | F. | James McGill born, 1744, Founder's Day. Dr. James Stewart died, 1906. |
| 7 | S. | Meeting of Medical Faculty. |
| 8 | S. | Fallopius died, 1562. |
| 9 | M. | Dr. A. F. Holmes died, 1860. |
| 10 | Tu. | |
| 11 | W. | Dr. F. Buller died, 1905. Meeting of Corporation. |
| 12 | Th. | |
| 13 | F. | Reamur died, 1757. |
| 14 | S. | Vesalius died, 1564. Register closes for session 1911-1912. |
| 15 | S. | |
| 16 | M. | |
| 17 | Tu. | |
| 18 | W. | |
| 19 | Th. | Baillie born, 1761. |
| 20 | F. | |
| 21 | S. | |
| 22 | S. | |
| 23 | M. | Meeting of Governors. |
| 24 | Tu. | |
| 25 | W. | British Columbia, C. P. and S. |
| 26 | Th. | |
| 27 | F. | |
| 28 | S. | |
| 29 | S. | Lectures began in Montreal Med. Ins. in 1824. |
| 30 | M. | |
| 31 | Tu. | All Hallows Eve. |

11th Month. NOVEMBER xxx days. 1911

| | | |
|---|---|---|
| 1 | W. | |
| 2 | Th. | |
| 3 | F. | |
| 4 | S. | Meeting of Medical Faculty. |
| 5 | **S.** | |
| 6 | M. | First Lectures delivered in Med. Faculty 1829. |
| 7 | Tu. | Dr. Geo. Ross died, 1892. |
| 8 | W. | |
| 9 | Th. | Edward VII. born, 1841 |
| 10 | F. | |
| 11 | S. | Bichat born, 1771. |
| 12 | **S.** | |
| 13 | M. | |
| 14 | Tu. | Dr. Duncan MacCallum died, 1904. |
| 15 | W. | |
| 16 | Th. | |
| 17 | F. | |
| 18 | S. | Sir William Dawson died, 1899. |
| 19 | **S.** | |
| 20 | M. | |
| 21 | Tu. | |
| 22 | W. | |
| 23 | Th. | |
| 24 | F. | |
| 25 | S. | |
| 26 | **S.** | |
| 27 | M. | Meeting of Governors. |
| 28 | Tu. | |
| 29 | W. | |
| 30 | Th. | |

12th Month. DECEMBER xxxi days. 1911.

| | | |
|---|---|---|
| 1 | F. | |
| 2 | S. | Meeting of Medical Faculty. |
| 3 | **S.** | |
| 4 | M. | |
| 5 | Tu. | |
| 6 | W. | |
| 7 | Th. | |
| 8 | F. | Herbert Spencer died, 1903. |
| 9 | S. | |
| 10 | **S.** | |
| 11 | M. | |
| 12 | Tu. | |
| 13 | W. | Examinations New Brunswick<br>Meeting of Corporation. |
| 14 | Th. | James McGill died, 1813. |
| 15 | F. | |
| 16 | S. | Lectures End. (First, Second and Third Years.) |
| 17 | **S.** | |
| 18 | M. | Christmas Exams. begin. |
| 19 | Tu. | |
| 20 | W. | |
| 21 | Th. | Pott died, 1788. |
| 22 | F. | Autumn term ends. |
| 23 | S. | |
| 24 | **S.** | |
| 25 | M. | Christmas Day. |
| 26 | Tu. | Peyer born, 1653. |
| 27 | W. | |
| 28 | Th. | |
| 29 | F. | |
| 30 | S. | |
| 31 | **S.** | Boerhaave born, 1688. |

1st Month. JANUARY xxxi days 1912

| | | |
|---|---|---|
| 1 | M. | New Year's Day.<br>Royal Victoria Hospital opened 1894. |
| 2 | Tu. | |
| 3 | W. | Linacre born, 1460. |
| 4 | Th. | Winter Term begins. |
| 5 | F. | |
| 6 | S. | Meeting of Medical Faculty. |
| 7 | **S.** | |
| 8 | M. | |
| 9 | Tu. | |
| 10 | W. | |
| 11 | Th. | |
| 12 | F. | |
| 13 | S. | |
| 14 | **S.** | Lower born, 1653. |
| 15 | M. | |
| 16 | Tu. | |
| 17 | W. | |
| 18 | Th. | |
| 19 | F. | |
| 20 | S. | |
| 21 | **S.** | Dr. Wm. Caldwell died, 1833. |
| 22 | M. | Queen Victoria died, 1901.<br>Meeting of Governors. |
| 23 | Tu. | |
| 24 | W. | |
| 25 | Th. | |
| 26 | F. | Dr. A. A. Browne died, 1910. |
| 27 | S. | |
| 28 | **S.** | |
| 29 | M. | Charter granted to Mont. General Hospital, 1823 |
| 30 | Tu. | |
| 31 | W | |

2nd Month. FEBRUARY xxix days. 1912.

| | | |
|---|---|---|
| 1 | Th. | |
| 2 | F. | |
| 3 | S. | Dr. Sutherland died, 1875.<br>Meeting of Medical Faculty. |
| 4 | **S.** | |
| 5 | M. | Willis born, 1622. |
| 6 | Tu. | |
| 7 | W. | Meeting of Corporation. |
| 8 | Th. | |
| 9 | F. | |
| 10 | S. | |
| 11 | **S.** | |
| 12 | M. | |
| 13 | Tu. | |
| 14 | W. | |
| 15 | Th. | Laennec born, 1781. John Hunter born, 1728.<br>Archibald Hall died, 1868. |
| 16 | F. | |
| 17 | S. | |
| 18 | **S.** | |
| 19 | M. | |
| 20 | Tu. | |
| 21 | W. | |
| 22 | Th. | |
| 23 | F. | Albinus born, 1697 |
| 24 | S. | Morgagni born, 1682. |
| 25 | **S.** | |
| 26 | M. | Meeting of Governors. |
| 27 | Tu | |
| 28 | W. | |
| 29 | Th. | |

3rd Month. MARCH xxxi days. 1912.

| | | |
|---|---|---|
| 1 | F. | |
| 2 | S. | Meeting of Medical Faculty. |
| 3 | S. | |
| 4 | M. | |
| 5 | Tu. | |
| 6 | W. | |
| 7 | Th | |
| 8 | F | |
| 9 | S. | |
| 10 | S. | Malpighi born, 1628. |
| 11 | M. | |
| 12 | Tu. | |
| 13 | W. | |
| 14 | Th. | |
| 15 | F. | |
| 16 | S. | |
| 17 | S. | |
| 18 | M. | |
| 19 | Tu. | |
| 20 | W. | |
| 21 | Th. | |
| 23 | F. | |
| 23 | S. | |
| 24 | S. | |
| 25 | M. | Meeting of Governors. |
| 26 | Tu. | |
| 27 | W. | Pro . R. P. Howard died, 1889 |
| 28 | Th | |
| 29 | F. | |
| 30 | S. | |
| 31 | S | |

4th Month. APRIL xxx days. 1912.

| | | |
|---|---|---|
| 1 | M. | |
| 2 | Tu. | |
| 3 | W. | Abernethy born, 1764. |
| 4 | Th. | |
| 5 | F. | |
| 6 | S | Meeting of Medical Faculty. |
| 7 | **S.** | |
| 8 | M | |
| 9 | Tu. | |
| 10 | W. | Professional Exams, Nova Scotia.<br>Meeting of Corporation. |
| 11 | Th. | Sydenham born, 1624<br>James Bell died, 1911. |
| 12 | F. | |
| 13 | S. | |
| 14 | **S.** | |
| 15 | M. | Manitoba Prof. Exams. |
| 16 | Tu. | Dr. William Wright died, 1903.<br>Medical Building burned, 1907. |
| 17 | W. | |
| 18 | Th. | |
| 19 | F. | |
| 20 | S. | |
| 21 | **S.** | |
| 22 | M. | Meeting of Governors. |
| 23 | Tu | Shakespeare born, 1564. |
| 24 | W. | |
| 25 | Th. | |
| 26 | F | |
| 27 | S. | |
| 28 | **S.** | |
| 29 | M | Lectures end. |
| 30 | Tu. | |

5th Month MAY xxxi days. 1912

| | | |
|---|---|---|
| 1 | W. | Montreal Gen. Hosp. opened for patients, 1822.<br>Matric Exam. Prov. Med. Board of N. Scotia |
| 2 | Th. | |
| 3 | F. | |
| 4 | S | Meeting of Medical Faculty. |
| 5 | **S.** | |
| 6 | M | Edward VII died, 1910.<br>Spring Examinations begin. |
| 7 | Tu. | C. P. & S. British Columbia, Prof'l. Exam. |
| 8 | W | |
| 9 | Th. | |
| 10 | F. | |
| 11 | S. | |
| 12 | **S.** | |
| 13 | M. | Exams. begin for 4 year students. |
| 14 | Tu. | Heberden born, 1710.<br>Professional Exams. C. P. & S., Ont |
| 15 | W. | |
| 16 | Th. | |
| 17 | F. | Edward Jenner born, 1749. |
| 18 | S. | |
| 19 | **S.** | |
| 20 | M. | Meeting of Governors. |
| 21 | Tu. | Prof. Scott died, 1883 |
| 22 | W. | |
| 23 | Th. | |
| 24 | F. | Victoria Day. |
| 25 | S. | |
| 26 | **S.** | |
| 27 | M. | |
| 28 | Tu. | Prof. G. W. Campbell died, 1882.<br>John H. R. Molson died, 1897. |
| 29 | W. | |
| 30 | Th. | |
| 31 | F. | |

6th Month. JUNE xxx days. 1912.

| | | |
|---|---|---|
| 1 | S. | Matriculation Exams. Arts and Medicine.<br>Meeting of Medical Faculty. |
| 2 | S. | |
| 3 | M. | George V born.<br>Graduate Course begins. |
| 4 | Tu. | Corner-stone Mont. Gen. Hospital laid, 1821. |
| 5 | W. | Opening of New Medical Building, 1911.<br>Eustachius died, 1574.<br>Meeting of Corporation. |
| 6 | Th. | |
| 7 | F. | Convocation for conferring degrees in Medicine. |
| 8 | S. | Session ends. |
| 9 | S. | |
| 10 | M. | |
| 11 | Tu. | |
| 12 | W. | |
| 13 | Th. | |
| 14 | F. | |
| 15 | S. | |
| 16 | S. | |
| 17 | M | |
| 18 | Tu. | |
| 19 | W. | Wyatt Johnston died, 1902.<br>Rolando born, 1773. |
| 20 | Th. | |
| 21 | F. | |
| 22 | S. | |
| 23 | S. | |
| 24 | M. | Meeting of Governors. |
| 25 | Tu. | |
| 26 | W. | New Brunswick C. P. & S. |
| 27 | Th. | Prof. Fenwick died, 1894. |
| 28 | F. | Dr. Robert Craik died, 1906 |
| 29 | S. | Mont Med. Institution became Med. Fac., 1829. |
| 30 | S. | |

# Governing Body of the University

## VISITOR.

HIS EXCELLENCY THE RIGHT HONOURABLE
EARL GREY, G.C.M.G., LL.D.,

GOVERNOR-GENERAL OF CANADA, ETC.

## GOVERNORS.

THE RIGHT HON. LORD STRATHCONA AND MOUNT ROYAL, G.C.M.G., LL.D. (Hon. Cantab.), President and Chancellor of the University.

WILLIAM PETERSON, M.A., LL.D., C.M.G., Principal and Vice-Chancellor.

SIR WILLIAM C. MACDONALD.

GEORGE HAGUE, Esq.

EDWARD B. GREENSHIELDS, Esq., B.A.

HON. JOHN SPROTT ARCHIBALD, M.A., D.C.L.

CHARLES J. FLEET, Esq., B.A., B.C.L., K.C.

RICHARD B. ANGUS, Esq.

SIR WILLIAM C. VAN HORNE, K.C.M.G.

JAMES ROSS, Esq.

SIR EDWARD S. CLOUSTON, Bart.

ROBERT REFORD, Esq.

CHARLES M. HAYS, Esq.

THOMAS G. RODDICK, M.D., LL.D. (Edin.), F.R.C.S., Eng. (Hon.).

WILLIAM M. BIRKS, Esq.

GEORGE E. DRUMMOND, Esq.

JOHN W. ROSS, Esq.

JAMES DOUGLAS, B.A., M.D., LL.D.

F. HOWARD WILSON, Esq.

CHARLES B. GORDON, Esq.

## PRINCIPAL.

WILLIAM PETERSON, M.A., LL.D., C.M.G., Vice-Chancellor.

## FELLOWS.

*Ex-officio.*

CHAS E. MOYSE, LL.D., Vice-Principal and Dean of the Faculty of Arts.
F. P. WALTON, B.A., LL.B., LL.D., Dean of the Faculty of Law.
FRANCIS J. SHEPHERD, M.D., LL.D., Edin. and Harv., Dean of the Faculty of Medicine.
FRANK D. ADAMS, D.Sc., Ph.D., Dean of the Faculty of Applied Science.
F. C. HARRISON, D.Sc., Principal of Macdonald College.
S. B. SINCLAIR, B.A., Ph.D., Head of the Teachers' Training Department Macdonald College.
H. C. PERRIN, Mus. Doc., Director of the McGill Conservatorium of Music.
ETHEL HURLBATT, M.A., Warden of the Royal Victoria College.
WELLINGTON DIXON, B.A., Rector of the Montreal High School.

*To retire 1st September 1912*

ANDREW MACPHAIL, B.A., M.D., Representative Fellow in Arts.
REV. JAMES BARCLAY, M.A., D.D., LL.D., Governors' Fellow.
S. B. LEACOCK, B.A., Ph.D., Elective Fellow, Faculty of Arts.
J. A. DALE, M.A., Elective Fellow, Faculty of Arts.
REV. JAMES SMYTHE, B.A., LL.B., LL.D., Representative Fellow, Montreal Wesleyan Theological College, Principal of the College.
MILTON L. HERSEY, D.Sc., Representative Fellow in Applied Science.
GEORGE E. ROBINSON, B.A., Representative Fellow, McGill University College of British Columbia, Vancouver, B.C.
J. G. ADAMI, M. A., M.D., LL.D., F.R.S., Governors' Fellow.
FRANCIS McLENNAN, B.A., B.C.L., Governors' Fellow.
E. B. PAUL, M.A., Representative Fellow Victoria College, B.C.
J. R. DOUGALL, M.A., Governors' Fellow.

*To retire 1st September 1913.*

W. D. LIGHTHALL, M.A., B.C.L., Representative Fellow in Arts.
R. F. RUTTAN, B.A., M.D., F.R.S.C., Elective Fellow, Faculty of Medicine.
C. H. GOULD, B.A., Governors' Fellow.
H. T. BARNES, D.Sc., Elective Fellow, Faculty of Arts.
REV. E. M. HILL, D.D., Representative Fellow, Congregational College of Canada, Principal of the College.
W. GRANT STEWART, B.A., M.D., Representative Fellow in Medicine.
REV. E. I. REXFORD, M.A., LL.D., Representative Fellow, Montreal Diocesan Theological College, Principal of the College.
ALFRED STANSFIELD, D.Sc., Elective Fellow, Faculty of Applied Science.
HON. ROBERT S. WEIR, D.C.L., Representative Fellow in Law.

*To retire 1st September, 1914.*

REV. JOHN SCRIMGER, M.A., D.D., Representative Fellow, Presbyterian College, Montreal, Principal of the College.
J. W. WALKER, Ph.D., F.R.S.C., Elective Fellow, Faculty of Arts.
J. M. ELDER, B.A., M.D., Representative Fellow in Medicine.
C. H. McLEOD, MA.E., F.R.S.C., Representative Fellow in Applied Science.
E. E. HOWARD, B.A., B.C.L., Representative Fellow in Law.
ARCHIBALD McGOUN, M.A., B.C.L., K.C., Elective Fellow, Faculty of Law.
J. CHALMERS CAMERON, M.D., Elective Fellow, Faculty of Medicine.
H. M. MACKAY, B.A., B.A.Sc., Elective Fellow, Faculty of Applied Science.
W. W. WHITE, B.A., M.D., F.R.C.S., St. John, N.B., non-resident Representative Fellow (Maritime Provinces and Newfoundland).
H. M. TORY, D.S.c., LL.D., Edmonton, Alta., non-resident Representative Fellow, (British Columbia, Alberta, Saskatchewan and Manitoba).
P. D. ROSS B.A.Sc., Ottawa, non-resident Representative Fellow (Ontario).
R. D. MACARTHUR, M.D., Chicago, Ill., non-resident Representative Fellow (Countries outside of Canada and Newfoundland).

**SECRETARY AND BURSAR :**

WALTER VAUGHAN, OFFICE, EAST WING, McGILL COLLEGE..

**UNIVERSITY REGISTRAR :**

J. A. NICHOLSON, M.A., OFFICE, EAST WING, McGILL COLLEGE.

*Office Hours:—9 to 5*

**REGISTRAR FACULTY OF MEDICINE.**

J. W. SCANE, M.D., OFFICE NEW MEDICAL BUILDING.

**HONORARY REPRESENTATIVE IN GREAT BRITAIN.**

W. A. EVANS, ESQ., M.A., SECRETARY HEADMASTERS' CONFERENCE, 12 KING'S BENCH WALK, TEMPLE, LONDON, E.C.

**THE ACADEMIC BOARD.**

*(Regular Meetings on the first Wednesday of December and March at 8.15 p.m.)*

CHAIRMAN—THE PRINCIPAL.

The Principal, the Deans of the several Faculties, the Professors and Associate Professors, and other members, not exceeding ten in number, of the teaching staff of the University, have been constituted, under the statutes, the Academic Board of the University, with the duty of considering such matters as pertain to the interests of the University as a whole and making recommendations concerning the same.

# Officers and Members of the Faculty. Since its Origin

## DEANS.

Dr. W. ROBERTSON, official head of the Montreal Medical Institution 1823, succeeded by Dr. JOHN STEPHENSON in 1829 as Registrar and Official head of the Faculty up to 1842, when he was succeeded by Dr. A. F. HOLMES with title of Secretary. Dr. A. F. HOLMES was the first Dean, 1854.

GEO. W. CAMPBELL, 1860.
R. P. HOWARD, 1882.
ROBT. CRAIK, 1889.
GEORGE ROSS (Vice-Dean), 1889.
THOMAS G. RODDICK, 1901
FRANCIS J. SHEPHERD, 1908.

## REGISTRARS.

JOHN STEPHENSON, 1829.
ARCHIBALD HALL, 1842.
WILLIAM WRIGHT, 1864.
ROBT. CRAIK, 1869.
WILLIAM OSLER, 1877.
F. J. SHEPHERD, 1883 (acting).
JAS. STEWART, 1884.
R. F. RUTTAN, 1891.
E. M. VON EBERTS, 1902.
JNO. W. SCANE, 1903.

## CHAIR OF MEDICINE.—(Founded 1824).

WILLIAM CALDWELL, 1824.
WILLIAM ROBERTSON, 1833.
ANDREW F. HOLMES, 1842.
R. PALMER HOWARD, 1860.
GEORGE ROSS, 1889.
JAMES STEWART, 1893.
F. G. FINLEY, Asst. Prof. 1894. Prof. 1907.
H. A. LAFLEUR, Asst. Prof. 1894. Prof. 1907.
C. F. MARTIN, Asst. Prof. 1899. Prof. 1907.
W. F. HAMILTON, Asst. Prof. 1908.

## CHAIR OF SURGERY.—(Founded 1824).

JOHN STEPHENSON, 1824.
G. W. CAMPBELL, 1835.
GEO. E. FENWICK, 1875.
T. G. RODDICK, 1890.
JAS. BELL, Asst. Prof. 1891, Prof. 1907-1911.
GEORGE E. ARMSTRONG, 1907.
J. M. ELDER, Asst. Prof., 1903.
A. E. GARROW, Asst. Prof., 1908.
J. A. HUTCHISON, Asst. Prof., 1908.

## CHAIR OF OBSTETRICS.—(Founded 1824).

WILLIAM ROBERTSON, 1824.
JOHN RACEY, 1833.
GEO. W. CAMPBELL, 1835.
MICHAEL MCCULLOCH, 1842.
ARCHIBALD HALL, 1854.
D. C. MACCALLUM, 1868.
ARTHUR A. BROWNE, 1883.
J. CHALMERS CAMERON, 1886.
D. J. EVANS, Asst. Prof. 1911.

## CHAIR OF ANATOMY.—(Founded 1824).

JOHN STEPHENSON, 1824. WM. E. SCOTT, 1856.
OLIVER T. BRUNEAU, 1842. FRANCIS J. SHEPHERD, 1883.
J. G. MCCARTHY, Asst. Prof., 1903-1910.

## CHAIR OF CHEMISTRY.—(Founded 1824).

ANDREW F. HOLMES, 1824. ROBT. CRAIK, 1867.
ARCHIBALD HALL, 1842. GILBERT P. GIRDWOOD, 1879.
WILLIAM SUTHERLAND, 1849. R. F. RUTTAN (Asst. Prof.), 1891-4.
R. F. RUTTAN, 1902.

## CHAIR OF PHYSIOLOGY.—(Founded 1824, Endowed 1897).

JOHN STEPHENSON, 1824. WILLIAM FRASER, 1849.
STEPHEN C. SEWELL, 1842. JOSEPH M. DRAKE, 1872.
ROBERT L. MACDONNELL, 1845. WILLIAM OSLER, 1874.
WESLEY MILLS, 1886.
W. S. MORROW (Asst. Prof.), 1904-1910.
N. H. ALCOCK, 1911.

## CHAIR OF PHARMACOLOGY AND THERAPEUTICS.

**(Founded 1824).**

ANDREW F. HOLMES, 1824. A. HALL, 1849.
ARCHIBALD HALL, 1835. WILLIAM WRIGHT, 1854.
STEPHEN C. SEWELL, 1842. JAMES STEWART, 1883.
A. D. BLACKADER, 1891.
J. T. HALSEY (Asst. Prof.), 1903-1904.
J. W. SCANE (Asst. Prof.), 1910.

## CHAIR OF BOTANY.—(Founded 1829).

ANDREW F. HOLMES, 1829. JAMES BARNSTON, 1857.
DR. PAPINEAU, 1845. J. W. DAWSON, 1855 and 1858-1888.
D. P. PENHALLOW, 1883-1910.

## CHAIR OF CLINICAL MEDICINE.—(Founded 1845).

JAMES CRAWFORD, 1845 and 1852. DUNCAN C. MACCALLUM, 1860.
ROBT. L. MACDONNELL, 1849. JOSEPH M. DRAKE, 1868.
STEPHEN C. SEWELL, 1850. GEORGE ROSS, 1872.
R. PALMER HOWARD, 1856. RICHARD L. MACDONNELL, 1889.
JAMES STEWART, 1891.
F. G. FINLEY, Asst. Prof. 1894. Assoc. Prof. 1896. Prof. 1907.
H. A. LAFLEUR, Asst. Prof. 1895. Assoc. Prof. 1896. Prof. 1907.
C. F. MARTIN, Asst. Prof. 1899. Prof. 1907.
W. F. HAMILTON, Asst. Prof. 1908.

## CHAIR OF CLINICAL SURGERY.—(Founded 1845).

JAMES CRAWFORD, 1845. GEORGE E. FENWICK, 1867.
WILLIAM E. SCOTT, 1852. THOMAS G. RODDICK, 1875.
DUNCAN C. MACCALLUM, 1856. JAMES BELL, Asst. Prof. 1891.
ROBERT CRAIK, 1860. Prof. 1894-1911.
GEO. E. ARMSTRONG, Asst. Prof. 1894. Asso. Prof. 1896. Prof. 1907.
A. E. GARROW, Asst. Prof. 1908.
J. A. HUTCHISON, Asst. Prof. 1908.

CHAIR OF MEDICAL JURISPRUDENCE.—(Founded 1845).

William Fraser, 1845.
Francis Badgley, 1849.
Francis C. T. Arnoldi, 1850.
William E. Scott, 1851.
William Wright, 1852.
R. Palmer Howard, 1854.
Duncan C. MacCallum, 1860.
George E. Fenwick, 1867.
William Gardner, 1875.
George Wilkins, 1883-1911.
D. D. MacTaggart, (Asst. Prof.), 1909.

CHAIR OF HYGIENE AND PUBLIC HEALTH.

(Founded 1871, Endowed 1893).

George Ross, 1871.
Thomas G. Roddick, 1873.
Robert T. Godfrey, 1875.
William Gardner, 1879.
R. L. MacDonnell, 1886.
Robert Craik, 1889.
Wyatt Johnston, Asst. Prof. 1897, Prof. 1902.
T. A. Starkey, 1902.

CHAIR OF PRACTICAL CHEMISTRY.—(Founded 1872).

Gilbert P. Girdwood, 1872.
R. F. Ruttan, Asst. Prof. 1891, Prof. 1894.

CHAIR OF OPHTHALMOLOGY AND OTOLOGY.—(Founded 1883).

Frank Buller, 1883.

CHAIR OF GYNÆCOLOGY.—(Founded 1883).

William Gardner, 1883.
W. W. Chipman, 1910.
F. A. L. Lockhart, Asst. Prof., 1910.

CHAIR OF PATHOLOGY.—(Founded 1892, Endowed 1893).

J. Geo. Adami, 1892.
A. G. Nicholls (Asst. Prof.), 1904.
L. J. Rhea, Asst. Prof. 1911.
O. C. Gruner, Asst. Prof. 1911.

CHAIR OF LARYNGOLOGY.—(Founded 1893).

G. W. Major, 1893.
H. S. Birkett, 1895.

CHAIR OF ZOOLOGY.

E. W. MacBride, 1902-1909.
Arthur Willey, 1910.

CHAIR OF OTO-LARYNGOLOGY.—(Founded 1906).

H. S. Birkett, 1906.

CHAIR OF OPHTHALMOLOGY.—(Founded 1906).

J. W. Stirling, 1906.

CHAIR OF HISTORY OF MEDICINE.—(Founded 1907).

Andrew Macphail, 1907.

# Benefactors of the Faculty of Medicine.

## I.—Leanchoil Endowment.

This endowment, established in 1883, has been invested and the interest applied to the general expenses of the Faculty.

Lord Strathcona and Mount Royal, G.C.M.G..... $50,000

## II.—Campbell Memorial Endowment.—$48,906.

Established in 1883 to commemorate the services rendered to the Faculty during forty years of the late Dean, George W. Campbell, M.D., LL.D.

This fund has also been invested, and the income from it utilized for general expenses of the Faculty.

| | |
|---|---|
| Mrs. G. W. Campbell | $2,000 |
| H. and A. Allan | 1,500 |
| Lord Strathcona and Mount Royal | 1,500 |
| Sir George Stephen, Bart. | 1,000 |
| R. B. Angus, Esq. | 1,000 |
| George A. Drummond, Esq. | 1,000 |
| Alex. Murray, Esq. | 1,000 |
| Robert Moat, Esq. | 1,000 |
| W. C. McDonald, Esq. | 1,000 |
| A Friend | 1,000 |
| Duncan McIntyre, Esq. | 1,000 |
| A. F. Gault, Esq. | 1,000 |
| M. H. Gault, Esq. | 1,000 |
| G. W. Stephens, Esq. | 1,000 |
| James Benning, Esq. | 1,000 |
| R. P. Howard, M.D. | 1,000 |
| G. B. & J. H. Burland, Esq. | 1,000 |
| Mrs. Elizabeth C. Benny | 1,000 |
| J. C. Wilson, Esq. | 1,000 |
| Mrs. John Redpath | 1,000 |
| Hon. John Hamilton | 1,000 |
| Miss Orkney | 1,000 |
| Hugh McKay, Esq. | 1,000 |
| Hector McKenzie, Esq. | 1,000 |
| Thomas Workman, Esq. | 1,000 |
| Hugh McLennan, Esq. | 1,000 |
| O. S. Wood, Esq. | 1,000 |
| Frank Buller, M.D. | 500 |
| James Burnett, Esq. | 500 |
| Andrew Robertson, Esq. | 500 |
| Robt. McKay, Esq. | 500 |
| John Hope, Esq. | 500 |
| Alex. Urquhart, Esq. | 500 |
| R. A. Smith, Esq. | 500 |
| George Hague, Esq. | $ 500 |
| J. K. Ward, Esq. | 500 |
| Warden King, Esq. | 500 |
| John Sterling, Esq. | 500 |
| John Rankin, Esq. | 500 |
| Cantlie, Ewan & Co. | 500 |
| Robt. Reford, Esq. | 500 |
| J. & W. Ogilvie | 500 |
| Randolph Hersey, Esq. | 500 |
| John A. Pillow, Esq. | 500 |
| S. Carsley, Esq. | 500 |
| D. C. McCallum, M.D. | 500 |
| S. Greenshields, Son & Co. | 500 |
| Jonathan Hodgson, Esq. | 500 |
| Geo. Ross, M.D. | 500 |
| T. G. Roddick, M.D. | 500 |
| Wm. Gardner, M.D. | 500 |
| Cochrane, Cassils & Co. | 500 |
| Joseph Hickson, Esq. | 500 |
| Allan Gilmour (Ottawa) | 500 |
| R. W. Shepherd, Esq. | 500 |
| G. E. Fenwick, M.D. | 300 |
| Miles Williams, Esq. | 300 |
| G. P. Girdwood, M.D. | 250 |
| Chas. F. Smithers, Esq. | 250 |
| John Kerry, Esq. | 250 |
| A. Baumgarten, Esq. | 250 |
| V. R. Elmenhorst, Esq. | 250 |
| W. F. Lewis, Esq. | 250 |
| Geo. Armstrong, Esq. | 250 |
| J. M. Douglas, Esq. | 250 |
| H. Lyman, Sons & Co. | 250 |
| F. J. Shepherd, M.D. | 250 |
| Duncan McEachran, Esq., F.R.C.V.S. | 200 |

| | |
|---|---|
| Benj. Dawson, Esq. | $ 200 |
| R. Wolff, Esq. | 150 |
| James Stewart, M.D. | 150 |
| Mrs. Cuthbert (New Richmond, Q.) | 100 |
| J. M. Drake, M.D. | 100 |
| H.W. Thornton, M.D. (New Richmond, Q) | 100 |
| A. T. Paterson, Esq. | 100 |
| C. B. Hanvey, M.D. (Yale, B.C.) | 100 |
| D. Cluness, M.D. (Nanaimo, B.C.) | 100 |
| W. Kinlock, Esq. | 100 |
| Hua Richardson & Co. | 100 |
| Hugh Paton, Esq. | 100 |
| R. T. Godfrey, M.D. | 100 |
| T. A. Rodger, M.D. | 100 |
| W. A. Dyer, Esq. | 100 |
| Geo. Wood, M.D. (Faribault, Min.) | 100 |
| A. A. Brown, M.D. | 100 |
| George Wilkins, M.D. | 100 |
| R. L. McDonnell, M.D. | 100 |
| Joseph Workmen, M.D. (Toronto) | 50 |
| Sir A. T. Galt | 50 |
| Henry Lunam, B.A., M.D. (Campbellton, N.B.) | 50 |
| T. J. Alloway, M.D. | 30 |
| Griffith Evans, M.D. (Vet. Department, Army) | 25 |
| J. J. Farley, M.D. (Belleville) | 25 |
| Henry R. Gray, Esq. | 25 |
| Louis T. Marceau, M.D. (Napierville Q.) | 25 |
| R. J. B. Howard, M.D. | $ 25 |
| R. F. Rinfret, Esq. (Quebec) | 20 |
| Robert Howard, M.D. (St. Johns) | 20 |
| Dr. J. & D. J. McIntosh (Vankleek Hill) | 20 |
| J. E. Brouse, M.D. (Prescott) | 20 |
| J. H. McBean, M.D. | 15 |
| J. C. Rattray, M.D. (Cobden, O.) | 10 |
| J. H. Howard, M.D. (Lachine) | 10 |
| J. W. Oliver, M.D. (Clifton, O.) | 10 |
| P. A. McDougall, M.D. (Ottawa, O.) | 10 |
| A. Pousette, M.D. (Sarnia, O.) | 10 |
| A. M. Ruttan, M.D. (Napanee O.) | 10 |
| James Gunn, M.D. (Durham, O.) | 10 |
| J. McDiarmid, M.D. (Hensall, O.) | 5 |
| W. J. Derby, M.D. (Rockland, O.) | 5 |
| J. Gillies, M.D. (Teeswater, O.) | 5 |
| J. B. Benson, M.D. (Chatham, N.B.) | 5 |
| L. A. Fortier, M.D. (St. David, Q.) | 5 |
| J. A. McArthur, M.D. (Fort Elgin, O.) | 5 |
| John Campbell, M.D. (Seaforth, O.) | 5 |

### III.—The Drake Endowment.

Given as a donation from 1891 to 1897, $500 per annum towards the expenses of the chair of Physiology.

Endowment of the Joseph Morley Drake chair of Physiology.

Walter Drake and Esther Maria Drake ..... $25,000

### IV.—The Dr. Geo. Major Donation.

Prof. Geo. Major, in 1892, contributed $500 towards the chair of Pathology.

Dr. Geo. Major ..... $500

### V.—The Dow Bequest.

A bequest from the late Mrs. Mary Dow in 1892, the interest from which is devoted to the general expenses of the Faculty.

The late Mrs. Mary Dow ..... $10,000

### VI.—The Mrs. John McDougall Donation.

A donation from Mrs. John McDougall in 1892 to bear Dr. Craik's name, the interest on which is applied to the general expenses of the Medical Faculty.

Mrs. John McDougall ..... $1,000

### VII.—The Molson Fund.

A donation from the late Mr. John H. R. Molson in 1893 to enable the Faculty to purchase land and erect an additional wing to its buildings.

John H. R. Molson..... $60,000

### VIII.—The Lord Strathcona and Mount Royal Endowment

An endowment in 1893 of the chairs of Pathology and Sanitary Science.

Lord Strathcona and Mount Royal..... $100,000

### IX.—The Learmont Bequest.

A bequest, in 1894, from Miss Jane Learmont, to bear Dr. Craik's name, the interest on which is applied to the general expenses of the Faculty.

The late Miss Jane Learmont..... $3,000

### X.—The Lord Strathcona and Mount Royal Building Fund.

A donation in 1898 in the names of Lady Strathcona and the Honorable Mrs. Howard, to enable the Faculty to meet the increased demand for laboratory accommodation.

Lady Strathcona ..... $50,000
Hon. Mrs. Howard ..... $50,000

### XI.—The David Morrice Donation.

In 1901 Mr. David Morrice donated the sum of $5,250 for the equipment and carrying on of research work in the "Eddie Morrice" laboratory of Pharmacology ..... $5,250

### XII.—The Lord Strathcona Donation.

In 1904 Lord Strathcona presented a further sum of $50,000 to meet the increased expenditure of the Faculty.

Lord Strathcona ..... $50,000

### XIII.—The James Ross Donation.

During the session of 1905-06 Mr. James Ross contributed the sum of $350.00 to meet the expense of some special research work in the department of Pathology and Bacteriology.....$350

### XIV.—The H. W. Thornton Memorial Fund.

This fund of $3,000 was given in 1908 through Dr. J. J. Gardner to commemorate the name of Dr. H. W. Thornton of New Richmond, Que. The interest on this amount to be applied to the purchase of Foreign journals for the Medical Library .....$3,000

### XV.—The Lord Strathcona Building Fund.

In July, 1909, Lord Strathcona gave $450,000 to provide for the completion of the museum and the west wing of the new Medical Building. ..... $450,000

### XVI.—The Medical Faculty Relief Fund.

This fund is now being subscribed to by the graduates in medicine in response to an appeal for aid to meet the loss sustained by the destruction of the Medical Building in the spring of 1907.
Subscriptions to May, 1911 amount to..... $12,836

### XVII.—The Lord Strathcona Equipment Fund.

In June, 1911, on the occasion of the opening of the New Medical Building, Lord Strathcona gave the sum of $100,000 to complete the equipment of the new building ..... $100,000

### XVIII.—The Arthur Browne Memorial Fund.

During the Session 1910-11 the sum of $10,000 was received from the Committee in charge of the Arthur Browne Memorial Fund .... ..... $10,000

---

## EQUIPMENT FUND.

### LIST OF SUBSCRIPTIONS GIVEN OR PROMISED.

| | |
|---|---|
| Aborn, Dr, W. H., Hawley, Minn... | $ 25 00 |
| Addison, Dr. J. L., St. George, Ont..... | 25 00 |
| Akerley, Dr. A. W. K., Milwaukee, Wis..... | 25 00 |
| Archibald, Dr. Edward, Montreal..... | 25 00 |
| Arnold, Dr. D. R., Westfield, N.B..... | 2 00 |
| Austin, Dr. F. J., Sherbrooke, P. Q..... | 5 00 |
| Aylmer, Dr. A. L., Minneapolis, Minn..... | 12 50 |
| Baird, Dr. Jas. G., Riverside, Cal..... | 25 00 |
| Blackader, Dr. A. D., Montreal..... | 500 00 |
| Blackader, Dr. E. H. P., Ottawa, Ont..... | 25 00 |
| Bonelli, Dr. V., Jr., Vicksburg, Miss..... | 25 00 |
| Bowie, Dr. R. A., Brockville, Ont..... | 100 00 |
| Brandon, Dr. John, Ancaster, Ont..... | 25 00 |
| Brown, Dr. W. A., Chesterville, Ont..... | 100 00 |
| Browning, Dr. W. E., Caledonia, Minn..... | 50 00 |
| Burland, Dr. S. C., Chicago, Ill..... | 25 00 |
| Carnworth, Dr., J. E. M., Riverside, N.B..... | 50 00 |
| Carson, Dr. J. H., Duluth, Minn..... | 25 00 |
| Cartwright, Dr. C., Fernie, B.C..... | 25 00 |
| Chisholm, Dr. Murdoch, Halifax, N.S..... | 50 00 |
| Christie, Dr. Ed., Chicago, Ill..... | 20 00 |
| Christie, Dr. W., Chicago, Ill..... | 25 00 |
| Church, Dr. Howard M., Montreal..... | 100 00 |
| Couston, Dr. J. R., Huntingdon, P. Q..... | 10 00 |
| Conroy, Dr., C. P., Denver, Colo..... | 25 00 |
| Cook, Dr. Guy R., Louisville, Ky..... | 25 00 |
| Cox, Dr. J. R., Chentu Sz-Chuen Prov., China..... | 5 00 |
| Cox, Dr. R. B., Collinsville, Conn..... | 25 00 |
| Craig, Dr. M. A.. Lower Lake, Col..... | 25 00 |
| Delaney, Dr. W.J., Nangstuck, Conn..... | 25 00 |
| Evans, Dr. D. J., Montreal..... | 300 00 |
| Evans, Dr. E. J., La Crosse, Wis..... | 100 00 |
| Fagan, Dr. G. A., North Adams, Mass..... | 10 00 |
| Farley, Dr. John J., Belleville, Ont..... | 100 00 |

| | | |
|---|---|---|
| Feader, Dr. W. A., Dickinson's Landing, Ont | $ | 100 00 |
| Finley, Dr. F. G., Montreal | | 500 00 |
| Fiske, Dr. Walter M., Montreal | | 100 00 |
| Fox, Dr. C. H., Vandalia, Mich | | 100 00 |
| Fraser, Dr. J. M., Chicago, Ill | | 25 00 |
| Gardner, Dr. William, Montreal | | 1,000 00 |
| George, Dr. J. D., Redwood, N.Y | | 10 00 |
| Gladman, Dr. Geo. J., New York City, N.Y | | 200 00 |
| Glendenning, Dr. R. T., Manchester, Mass | | 25 00 |
| Gooding, Dr. C. E., St. Philip, Barbados, W. I | | 25 00 |
| Gourlay, Dr. H. B., Vancouver, B.C | | 10 00 |
| Gurd, Dr. D. F., Montreal | | 100 00 |
| Halliday, Dr. J. T. I., Peterboro, Ont | | 100 00 |
| Hamilton, Dr. W. F., Montreal | | 300 00 |
| Hayd, Dr. H. E., Buffalo, N.Y | | 25 00 |
| Healy, Dr. B. J., Army Med. Museum, Washington, D.C | | 50 00 |
| Hebert, Dr. P. Z. Portman, Sq., London, W., England | | 25 00 |
| Henderson, Dr. J. A., Montreal | | 200 00 |
| Higgins, Dr. C. P., Fernie B.C | | 50 00 |
| Hollingsworth, Dr. J. E., Avon, S.D | | 25 00 |
| Hunter, Dr. Norman N., Hudson, Mass | | 10 00 |
| Hutchison, Dr. J. Alex., Montreal | | 500 00 |
| Irvine, Dr. R. T., Sing Sing, N.Y | | 25 00 |
| Jack, Dr. DuVernet, St. Lamberts, P.Q | | 9 00 |
| Jamieson, Dr. G. W. R., Torreon, Coahuila, Mexico | | 25 00 |
| Johnson, Dr. J. G. W., Mexico | | 25 00 |
| Jones, Dr. Newbold C., Toronto, Ont | | 5 00 |
| Kee, Dr. D. N., Gladstone Mich | | 25 00 |
| Kerr, Dr. H. H., Washington, D.C | | 10 00 |
| Kerr, Dr. Norman, Montreal | | 50 00 |
| Kinloch, Dr. J. A., Chicago, Ill | | 25 00 |
| Lamb, Dr. W. O., Canmore, Alta | | 10 00 |
| Lang, Dr. A. A. J., Sanborn, N.D | | 10 00 |
| Lawford, Dr. J. B., London, Eng | | 200 00 |
| Lippiatt, Dr. H. T., Bristol, P.Q | | 25 00 |
| Lockhart, Dr. F. A. L., Montreal | | 250 00 |
| Long, Dr. C. H., Chicago, Ill | | 25 00 |
| McArthur, Dr. J. A., Winnipeg, Man | | 100 00 |
| Macalay, Dr John F., Grand Manan, N.B | | 10 00 |
| McClure, Dr. Wm., Honan, China | | 100 00 |
| McDonald, Dr. H. N., Minneapolis, Minn | | 12 50 |
| McKechnie, Dr. Robt. E., Vancouver, B.C | | 250 00 |
| McKinnon, Dr. F. H., Ottawa, Ont | | 100 00 |
| MacKenzie, Dr. Ridley, Montreal | | 50 00 |
| MacMartin, Dr. D. R., Chicago, Ill | | 25 00 |
| McMeekin, Dr; Jas. W., Saginaw, Mich | | 25 00 |
| Macphail, Dr. Andrew, Montreal | | 150 00 |
| Maas, Dr. R. J., Hancock, Mich | | 50 00 |
| Maby, Dr. W. J., Cohoes, N. Y | | 25 00 |
| Main, Dr. C. G., Edmundston, N.B | | 15 00 |
| Mathieson, Dr. J. H., St. Mary's, Ont | | 100 00 |
| Millar, Dr. Clarence, Stellarton, N.S | | 75 00 |
| Millar, Dr. Stanley, Battleford, Sask | | 20 00 |
| Miller, Dr. G. H. S., Stanley, N. D | | 50 00 |
| Morgan, Dr. V. H., River Beaudette, P.Q | | 20 00 |
| Mowatt, Dr. W., Walhalla, N.D | | 25 00 |
| Morphy, Dr. A. G., Lachine, P.Q | | 50 00 |
| Murphy, Dr. G. B., Montreal | | 75 00 |
| Murphy, Dr. H. H., Lansdowne, Ont | | 30 00 |

| | |
|---|---|
| Myers, Dr. D. A., Prentice, Wis. | $ 25 00 |
| Nathan, Dr. David, Montreal | 30 00 |
| Ogden, Dr. H. V., Milwaukee, Wis | 10 00 |
| Orton, Dr. T. H., Guelph, Ont | 25 00 |
| Osler, Dr. W., Oxford, Eng | 500 00 |
| Patterson, Dr. W. F., Belt, Mont | 25 00 |
| Pfersick, Dr. J. G. Greenfield, Mass | 10 00 |
| Phippen, Dr. S. S. C., Owosso, Mich | 10 00 |
| Puddington, Dr. B. A., Grand Falls, N.B. | 5 00 |
| Risher, Dr. F. O., Dravosburg, Pa | 25 00 |
| Robbins. Dr. E. E., Govan, Sask | 25 00 |
| Robert, Dr. G. C., Holyoke, Mass | 25 00 |
| Roddick, Dr. T. G., Montreal | 1,000 00 |
| Ross, Dr. D. L., Sonyea, N.Y | 5 00 |
| Ryan, Dr. G. W., Vermillion, Alta | 30 00 |
| Scane, Dr. J. W | 100 00 |
| Shepherd, Dr. F. J., Montreal | 1,000 00 |
| Smith, Dr. Edw., Meriden, Conn | 25 00 |
| Smith, Dr. A. Macrae., Bellingham, Wash | 100 00 |
| Smyth, Dr. H. E., Bridgeport, Conn | 25 00 |
| Spearman, Dr. Fred S., Whiting, Iowa | 10 00 |
| Spier. Dr. J. R., Montreal | 100 00 |
| Struthers, Dr. R. B., Sudbury, Ont | 100 00 |
| Sutherland, Dr. J. O., Springhill, N.S. | 50 00 |
| Sutherland, Dr. Walter S., Valleyfield, P.Q | 50 00 |
| Taylor, Dr. J. N., Golden, B.C | 25 00 |
| Thornton, Miss Isabel, Montreal | 500 00 |
| Todd, Dr. J. L., Montreal | 25 00 |
| Tracy, Dr. A. W., Meriden, Conn | 25 00 |
| Truax, Dr. W., Grand Forks, B.C | 5 00 |
| Turnbull, Dr. Alfred R., Moose Jaw, Sask | 100 00 |
| Warren. Dr. F., Whitby, Ont | 100 00 |
| Watson, Dr. N. M., Red Lake Falls, Minn. | 25 00 |
| Wetmore, Dr. F. H., Hampton, N.B | 25 00 |
| Wilkins, Dr. Geo., Montreal | 500 00 |
| Williams, Dr. J., Boston, Mass | 25 00 |
| Wilson, Dr. C. W., Montreal | 250 00 |
| Wood, Dr. Casey A., Chicago, Ill | 200 00 |
| Wood, Dr. H. G., Faribault, Minn | 25 00 |
| Woodruff, Dr. T. A., Chicago, Ill | 200 00 |
| Woolway, Dr. C. J., St. Paul, Minn | 25 00 |
| Wright, Dr. John W., Picton, Ont | 75 00 |

In addition to the foregoing the following subscriptions have been given or promised by Graduates in Medicine to the General Relief Fund for the University:

| | |
|---|---|
| Ferguson, Dr. Wm., New York, N.Y | $ 100 00 |
| Gibson, Dr. Wm. B., Huntington, N.Y | 100 00 |
| McDonald, Dr. E., New York, N.Y | 100 00 |
| McKenzie, Dr. R. Tait, Philadelphia, Pa | 100 00 |
| Macpherson, Dr. D., New York, N.Y | 150 00 |
| Meek, Dr. Jas. A., New York, N.Y | 50 00 |
| Nelson, Dr. Wolfred, New York, N.Y | 1,000 00 |
| Ogilvy, Dr. Chas., New York, N.Y | 100 00 |
| Schwartz, Dr. H. J., New York, N.Y | 100 00 |
| Vineberg, Dr. Hiram N., New York, N.Y | 250 00 |
| Wheeler, Dr. Claude L., Belleville, N.J | 10 00 |
| | $2,060 00 |

# Faculty of Medicine.

WM. PETERSON, M.A., LL.D., C.M.G., Principal.

CHAS. E. MOYSE, B.A., LL.D., Vice-Principal.

FRANCIS J. SHEPHERD, M.D., LL.D., Edin. and Harv., Dean.

J. W. SCANE, M.D., Registrar.

J. G. ADAMI, M.A., M.D., F.R.S., Director of Pathological Museum.

MAUDE E. ABBOTT, B.A., M.D., Curator.

F. G. FINLEY, M.B. (Lond.), M.D., Librarian.

MISS M. R. CHARLTON, Assistant Librarian.

## EMERITUS PROFESSORS.

G. P. GIRDWOOD, M.D., Chemistry, 111 University Street.

THOMAS G. RODDICK, M.D., LL.D. (Edin.), F.R.C.S., Eng. (Hon.)., Surgery, 80 Union Avenue.

WILLIAM GARDNER, M.D., Gynæcology, 109 Union Ave.

WESLEY MILLS, M.A., M.D., Physiology, 45 Warrington Crescent, London, England.

GEORGE WILKINS, M.D., Medical Jurisprudence, 358 Dorchester St. W.

## PROFESSORS.

### MEMBERS OF FACULTY.

FRANCIS J. SHEPHERD, M.D., LL.D. (Edin. and Harv.), F.R.C.S.E. (Hon.), Professor of Anatomy and Dean of the Faculty, 152 Mansfield Street.

JAMES CHALMERS CAMERON, M.D., Professor of Obstetrics and Diseases of Infants, 605 Dorchester Street, West.

ALEX. D. BLACKADER, B.A., M.D., Professor of Pharmacology and Therapeutics, and Lecturer on Diseases of Children, 236 Mountain Street.

R. F. RUTTAN, B.A., M.D., F.R.S.C., Professor of Chemistry, 660 Sherbrooke Street, West.

J. G. ADAMI, M.A., M.D. (Cantab.), LL.D., F.R.SS. (Lond. Edin. & Can.), Professor of Pathology, McGill College.

F. G. FINLEY, M.B. (Lond.), M.D. (McGill), Professor of Medicine and Clinical Medicine, 720 Dorchester Street, West.

HENRY A. LAFLEUR, B.A., M.D., Professor of Medicine and Clinical Medicine, 215 Peel Street.

GEORGE E. ARMSTRONG, M.D., Professor of Surgery and Clinical Surgery, 320 Mountain Street.

H. S. BIRKETT, M.D., Professor of Oto-Laryngology, 252 Mountain Street.

T. A. STARKEY, M.B. (Lond.), M.D., D.P.H., F.R.S.I., Professor of Hygiene, 271 University Street.

J. W. STIRLING, M.B. (Edin.), M.D., Professor of Ophthalmology, 128 Stanley Street.

C. F. MARTIN, B.A., M.D., Professor of Medicine and Clinical Medicine, 33 Durocher Street.

ARTHUR WILLEY, D.Sc., F.R.S., Professor of Zoology, McGill College.

W. W. CHIPMAN, B.A., M.D. (Edin.), F.R.C.S. (Edin.), Professor of Gynæcology, 285 Mountain Street.

N. H. ALCOCK, B.A., M.D., Professor of Physiology, McGill College.

---

T. J. W. BURGESS, M.D., F.R.S.C., Professor of Mental Diseases, Protestant Hospital for the Insane, Verdun.

JOHN M. ELDER, B.A., M.D., Assistant Professor of Surgery and Lecturer in Clinical Surgery, 4201 Sherbrooke Street.

A. G. NICHOLLS, M.A., M.D., Assistant Professor of Pathology and Lecturer in Clinical Medicine, 972 St. Catherine St. W.

J. A. MACPHAIL, B.A., M.D., Professor of History of Medicine, 216 Peel Street.

J. L. TODD, B.A., M.D., D.Sc. (Hon.) Associate Professor of Parasitology, Macdonald College, St. Anne's, Que.

A. E. GARROW M.D., Assistant Professor of Surgery and Clinical Surgery, 289 Mountain Street.

W. F. HAMILTON, M.D., Assistant Professor of Medicine and Clinical Medicine, 287 Mountain Street.

J. ALEX. HUTCHISON, M.D., Assistant Professor of Surgery and Clinical Surgery, 354 Mackay Street.

D. D. MACTAGGART, Assistant Professor of Medical Jurisprudence, 221 Sherbrooke Street W.

J. C. SIMPSON, B.Sc., Associate Professor of Histology and Embryology, 20 Oxenden Ave.

J. W. SCANE, M.D., Assistant Professor of Pharmacology, McGill College.

F. A. L. LOCKHART, M.B. (Edin.), Assistant Professor of Gynæcology, 38 Bishop Street.

D. J. EVANS, M.D., Assistant Professor of Obstetrics and Lecturer in Diseases of Infants and Children, 603 Dorchester Street West.

L. J. RHEA, M.D., Assistant Professor of Pathology, Montreal General Hospital.

O. C. GRUNER, M.D., Assistant Professor of Pathology, Royal Victoria Hospital.

## LECTURERS.

G. Gordon Campbell, B.Sc., M.D., Lecturer in Medicine and Clinical Medicine, and in Diseases of Infants and Children, 117 Metcalfe Street.

S. Ridley Mackenzie, M.D., Lecturer in Clinical Medicine, 192 Peel Street.

John McCrae, B.A., M.B., M.R.C.P. (Lond.), Lecturer in Pathology and in Clinical Medicine, 160 Metcalfe Street.

H. B. Yates, B.A. (Cantab.), M.D., Lecturer in Bacteriology, 257 Peel Street.

D. A. Shirres, M.D. (Aberdeen), Lecturer in Clinical Neurology, 583 Dorchester Street, West.

W. G. M. Byers, M.D., Lecturer in Ophthalmology, 346 Mountain Street.

A. A. Robertson, M.D., Lecturer in Physiology and Demonstrator of Clinical Medicine, 136 Mansfield Street.

A. A. Bruere, M.D., Lecturer in Clinical Medicine, Royal Victoria Hospital.

W. M. Fisk, M.D., Lecturer in Histology, 98 Park Avenue.

J. A. Henderson, M.D., Lecturer in Anatomy, 34 Park Avenue.

Kenneth Cameron, B.A., M.D., Lecturer in Clinical Surgery, Linton Apartments, Sherbrooke Street, West.

E. W. Archibald, B.A., M.D., Lecturer in Clinical Surgery, 160 Metcalfe Street.

W. L. Barlow, M.D., Lecturer in Clinical Surgery, 4458 Sherbrooke Street.

G. H. Mathewson, M.D., Lecturer in Ophthalmology, Birks Building.

H. M. Little, B.A., M.D., Lecturer in Obstetrics and Diseases of Infants and Demonstrator of Gynæcology, 261 Peel Street.

J. J. Ross, B.A., M.D., Lecturer in Anatomy, 873 Wellington St.

A. E. Orr, M.D., Lecturer in Anatomy, 540 Dorchester St. West.

W. B. Howell, M.D., Lecturer in Physiology, 47 St. Mark St.

T. P. Shaw, M.D., Lecturer in Physiology, 1022 Dorchester St. West.

V. J. Harding, B.Sc., Lecturer in Biological and Physiological Chemistry, McGill College.

C. B. Keenan, M.D., Lecturer in Clinical Surgery, 376 Mountain Street.

Phillip Burnett, M.D., Lecturer in Dermatology, 261 Peel Street.

J. L. D. MASON, B.A., M.D., Lecturer in Pharmacy and Demonstrator of Pharmacology, 24 Park Avenue.

DAVID PATRICK, M.D., Lecturer in Gynæcology, 4174 St. Catherine Street.

MAUDE E. ABBOTT, B.A., M.D., Curator of the Museum, McGill College.

## DEMONSTRATORS AND ASSISTANT DEMONSTRATORS.

A. H. GORDON, M.D., Demonstrator of Clinical Medicine, 219 Prince Arthur St. W.

H. D. HAMILTON, M.D., Demonstrator of Rhinology and Laryngology, Room 205, Birks Building.

H. B. CUSHING, B.A., M.D., Demonstrator of Clinical Medicine, 208 Peel Street.

H. R. D. GRAY, B.A., M.D., Demonstrator of Obstetrics, 60 Beaver Hall Hill.

F. B. JONES, M.D., D.P.H., Demonstrator of Hygiene, 98 Sherbrooke Street, West.

A. T. BAZIN, M.D., Demonstrator of Clinical Surgery, 4064 Dorchester Street.

F. M. FRY, M.D., Demonstrator of Clinical Medicine and of Diseases of Infants and Children, 577 Dorchester Street West.

C. A. PETERS, M.D., Demonstrator of Clinical Medicine, 370 Mountain Street.

J. R. GOODALL, M.D., Demonstrator of Gynæcology, 153 Metcalfe St.

W. H. JAMIESON, M.D., Demonstrator of Oto-Laryngology, 208 Peel Street.

R. P. CAMPBELL, M.D., Demonstrator of Pathology, and of Clinical Surgery, 240 Mountain Street.

J. W. DUNCAN, M.D., Demonstrator of Obstetrics, Sherbrooke Apartments.

A. MACKENZIE FORBES, M.D., Demonstrator of Orthopœdic Surgery, 485 Guy St.

C. K. P. HENRY, M.D., Demonstrator of Anatomy, and Assistant Demonstrator of Clinical Surgery, 4549 Sherbrooke Street.

C. K. RUSSEL, B.A., M.D., Demonstrator of Clinical Medicine, 218 Bishop Street.

S. H. MCKEE, M.D., Demonstrator of Ophthalmology, and of Bacteriology, 158 Crescent Street.

A. R. PENNOYER, M.D., Demonstrator of Clinical Surgery, 418 Mackay Street.

F. T. Tooke, B.A., M.D., Demonstrator of Ophthalmology, 368 Mountain Street.

C. F. Wylde, M.D., Demonstrator of Clinical Medicine, 101 Crescent Street.

R. H. Craig, M.D., Demonstrator of Rhinology and Laryngology, 670 Sherbrooke Street West.

W. W. Francis, M.D., Demonstrator of Pathology, and Assistant Demonstrator of Clinical Medicine, 125 Mansfield Street.

W. G. Turner, M.D., Demonstrator of Orthopœdic Surgery, 261 Peel Street.

J. C. Meakins, M.D., Demonstrator of Clinical Medicine and of Bacteriology, 392 Mountain Street.

E. M. von Eberts, M.D., Demonstrator of Clinical Surgery, 219 Peel Street.

J. A. Nutter, M.D., Demonstrator of Anatomy, 65 Drummond Street.

A. L. C. Gilday, M.D., Demonstrator of Physiology, 82 Union Ave.

H. C. Burgess, M.D., Demonstrator of Obstetrics, Montreal Maternity Hospital.

J. W. Hutchinson, M.D., Demonstrator of Anatomy and Assistant Demonstrator of Clinical Surgery, 186 Peel Street.

W. H. Smyth, B.A., M.D., Demonstrator of Anatomy, 861 St. Catherine Street West.

W. H. P. Hill, M.D., Demonstrator of Clinical Surgery, 409 Mackay Street.

F. McKenty, M.D., Demonstrator of Clinical Surgery and of Anatomy, 93 Union Avenue.

R. H. M. Hardisty, B.A., M.D., Demonstrator of Clinical Chemistry and Assistant Demonstrator in Clinical Medicine, 190 Peel Street.

J. G. Browne, M.D., Assistant Demonstrator of Clinical Medicine, 1171 St. Denis Street.

A. G. McAuley, M.D., Assistant Demonstrator of Clinical Medicine, 475 St. Antoine Street.

D. W. McKechnie, M.D., Assistant Demonstrator of Clinical Medicine, 1798 Park Ave.

H. S. Muckleston, M.D., Assistant Demonstrator of Oto-Laryngology, 116 University Street.

Hamilton White, B.A., M.D., Assistant Demonstrator of Oto-Laryngology, 58 Crescent Street.

C. F. Moffatt, M.D., Assistant Demonstrator of Clinical Medicine, 51 Park Avenue.

W. J. PATTERSON, M.D., Assistant Demonstrator of Clinical Surgery, 1828 Park Ave.

JOSEPH KAUFMANN, M.D., Assistant Curator of the Museum, McGill College.

F. W. NAGLE, M.D., Assistant Demonstrator of Pharmacology, 773 St. Urbain Street.

L. M. LINDSAY, Assistant Demonstrator of Histology, McGill College.

L. L. REFORD, Assistant Demonstrator of Pathology, 275 Bishop Street.

F. J. TEES, M.D., Assistant Demonstrator of Clinical Medicine, 600 Dorchester Street W.

J. T. ROGERS, M.D., Assistant Demonstrator of Oto-Laryngology, 80 Crescent Street.

A. FREEDMAN, M.D., Assistant Demonstrator of Dermatology, 23 Sherbrooke Street E.

---

## INSTRUCTORS IN THE DENTAL DEPARTMENT.

### PROFESSORS.

D. JAMES BERWICK, D.D.S., L.D.S., Professor of Operative Dentistry and Chairman of the Dental Executive, 485 St. Catherine St. West.

FRED. G. HENRY, D.D.S., L.D.S., Professor of Dental Materia Medica and Therapeutics and Dental Pathology, Bank of Toronto Building, Guy and St. Catherine.

JAMES B. MORISON, D.D.S., L.D.S., Professor of Orthodontia and Crown and Bridge Work, Birks Building, Phillips Square.

GEORGE S. CAMERON, L.D.S., Professor of Prosthetic Dentistry and Metallurgy, Birks Building, Phillips Square.

### LECTURERS.

F. H. A. BAXTER, D.D.S., L.D.S., Lecturer in Dental Histology and Dental Surgery, Lindsay Building, St. Catherine St. West.

W. WATSON, B.A., D.D.S., L.D.S., Lecturer in Operative Technique and Operative Dentistry, 54 Park Avenue.

T. D. MCGREGOR, D.D.S., L.D.S., Lecturer in Dental Anatomy, St. Catherine and Guy Streets.

J. S. DOHAN, D.D.S., L.D.S., Lecturer in Crown and Bridge Work, 127 Stanley Street.

# Faculty of Medicine.

## I.

### Foundation and Early History.

The Eightieth Session of this Faculty will be opened on Monday, October 2nd, 1911, by an introductory lecture. The regular lectures in all subjects will begin on Tuesday, October 3rd, at the hours specified in the time-table, and will continue until May 1st, 1912.

The Faculty of Medicine of McGill University is the direct outcome and continuance of a teaching body known as the Montreal Medical Institution which was organized as a medical school in the years 1823-24 by Drs. Wm. Robertson, Wm. Caldwell, A. F. Holmes, John Stephenson and H. P. Loedel. These men constituted the first medical staff of the Montreal General Hospital, itself established in 1819. The first session of the Montreal Medical Institution opened in November, 1824, with 25 students, and the lectures were given at the House of the Institution, No. 20 St. James Street, a building situated on the north side of St. James Street, at or near Place d'Armes.

In the year 1829, the Montreal Medical Institution became, by the formal act of the Governors of the Royal Institution for the Advancement of Learning, the Medical Faculty of McGill University.

The first session of the McGill Medical Faculty took place in the winter of 1829-30, and the first university degree, a medical one, was conferred four years later in 1833.

There were no sessions held during the political troubles of 1836 to 1839, and it is owing to this fact that this is the Eightieth instead of the Eighty-third Session of the Faculty, dating from its incorporation with the University in the year 1829.

The work of the Faculty was carried on for some years in the central part of the city until in 1872 a building in the university grounds was provided by the governors.

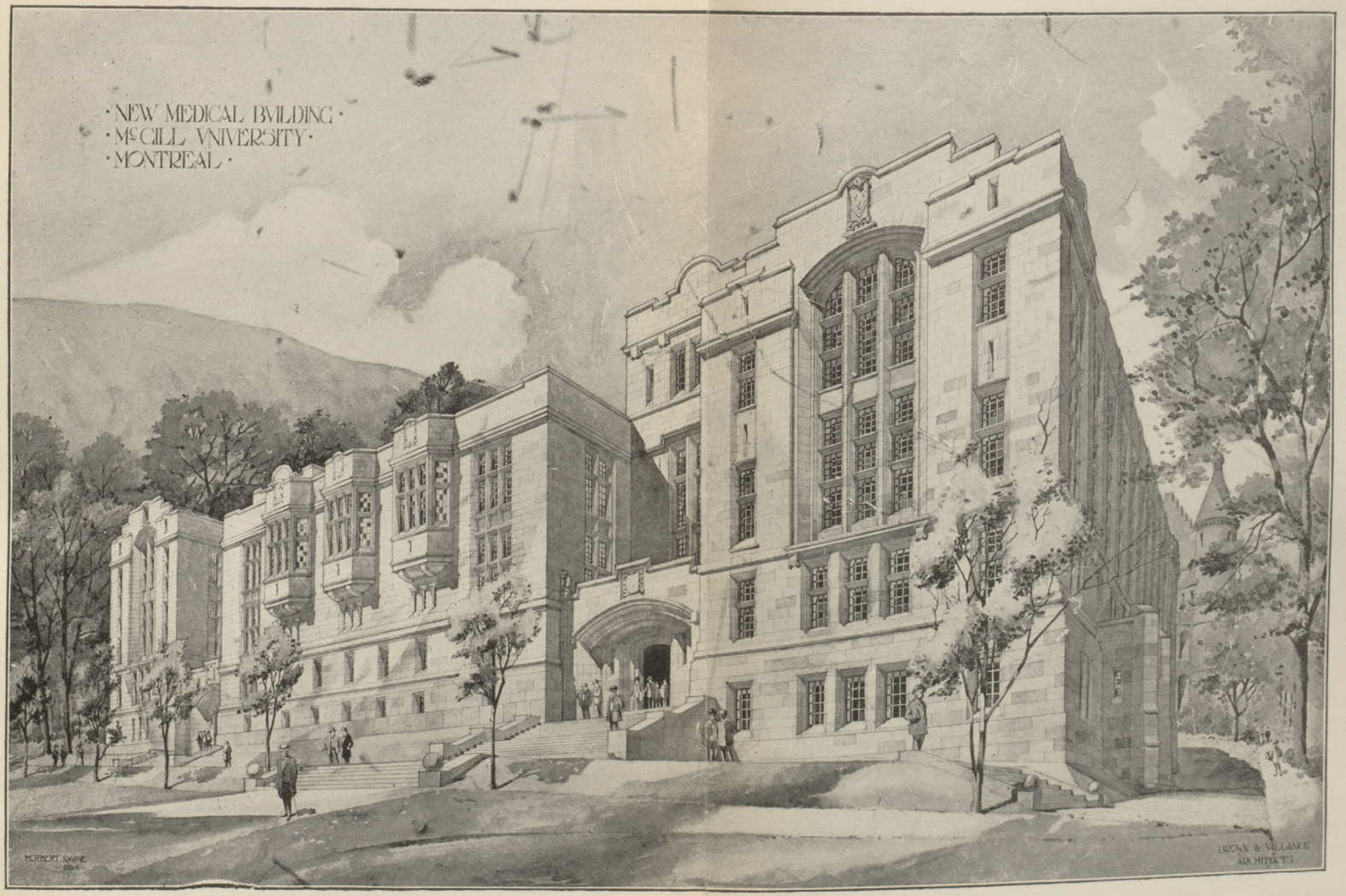
This building met the demands of the steadily increasing number of students until 1885 when an addition was found necessary.

In 1893 the late Mr. John H. R. Molson purchased property adjoining the College grounds and enabled the Faculty to erect new buildings and extensively alter and improve those already in use. The new wings comprised a large lecture room capable of accommodating 150 students and new laboratories for Pathology, Histology, Pharmacology and Sanitary Science. The Library and the Museum of Pathology were also enlarged and improved. Notwithstanding the greatly increased accommodation a further extension became, in less than five years, almost imperative.

Before, however, the want of space and equipment was seriously felt, Lord Strathcona in the names of Lady Strathcona and the Hon. Mrs. Howard, in 1898, contributed the sum of $100,000 towards the necessary extensions and alterations. These buildings, when completed, had more than twice the capacity of those occupied during the session 1900-1901 and enabled the Faculty to greatly increase the scope of its laboratory teaching. On the 16th of April, 1907, a part of these new buildings, together with the original medical building, were destroyed by fire. Fortunately the wing containing the teaching laboratories and the chief lecture room of the Faculty was saved, though to some extent damaged by water and smoke. This wing was completely restored in time for the opening of the Session 1907-08, so that the work of the Faculty was not seriously interfered with.

## New Buildings.

During the summer of 1910 the Faculty took possession of the new building erected by the University at the corner of Pine Avenue and University Street. That portion which is now occupied comprises the east wing, extending




New Medical Building—Front Elevation from Campus.

along University Street, the central portion, facing the campus, and to the rear of this the Museum. The west wing is now ready for occupation and will be taken possession of during the present summer.

Of the central part of the new building the greater portion is set aside for the accommodation of the library, the whole of the front of the second and third floors and a portion of the ground floor being used. On the third floor is a large students' reading room, 76 x 24 feet, exceptionally well lighted and capable of accommodating 100 readers. On this floor also is the staff journal room and the private offices of the librarian. The second floor is occupied by the stack room, having accommodation for sixty thousand volumes, and by individual research and reading rooms. A portion of the ground floor is set aside for storage.

Besides the library the central portion of the building contains also three lecture rooms, the private museum and offices of the professor of anatomy and the administration office, research and preparation rooms of the museum staff.

To the rear of the central building is the museum, probably the most complete structure of its kind in connection with a medical school on this continent. It is built in the form of a rectangular cross, three storeys high, splendidly lighted by ample window space on three sides and by a large central light well. Each floor is furnished with free stacks and wall cases made of steel and plate glass, thoroughly dust-proof. The anatomical collections are placed on the third floor, while the first and second floors are devoted to pathology. In both the anatomical and pathological sections of the museum the specimens have been prepared and classified with a view to their being made use of in the teaching of these important subjects.

The east wing gives accommodation for the departments of anatomy, pathology and bacteriology, the dental department, the faculty rooms and administration offices, the mortuary and preparation room for dissecting material, as well

as ample space for students' lockers and lavatories and a large students' reading and smoking room.

On the ground floor of this wing will be found the mortuary, in which there is provision for the storage of 80 subjects, and leading from this the preparation room. On this floor also is the large locker room containing 400 steel lockers, the students' lavatory and the students' reading and smoking room, this latter being provided with newspapers and magazines and being under the control of the students themselves.

On the first floor is the Faculty room and a series of rooms for administrative work. The northern half of this floor is occupied by the dental department, comprising offices, lecture room and modern, well equipped laboratories.

The second floor is wholly occupied by the department of pathology and bacteriology. In the southern half is the professors' private laboratory and office, four research and preparation rooms, a small demonstration theatre and an assistant's room. The northern half is occupied by the students' laboratory, a room 76 x 40 feet, splendidly lighted and equipped with all the necessary apparatus for modern laboratory instruction.

The third floor is taken up wholly by the department of anatomy and contains besides private offices and research rooms for the professor and staff, a large dissecting room, 88 x 40 feet, excellently lighted and fully equipped. Adjoining the dissecting room is a large lavatory and students' locker room.

Between the second and third floors is a mezzanine floor which is devoted to the department of parasitology. Here, besides the private offices and research rooms of the professor, there are four fully equipped laboratories for advanced work.

In the west wing are the departments of hygiene, pharmacology and experimental medicine. There is also a large lecture room having a seating capacity of four hundred.

This lecture room occupies the northern portion of the

ground floor and has been designed for special demonstrations to large classes. It may also be used as an examining hall.

In the southern portion of this floor are the private laboratories and research rooms of the department of pharmacology. This department also occupies the mezzanine floor immediately above where will be found the students' laboratory, a compact well lighted room giving accommodation for sixty students at a time.

The second floor is occupied by the department of hygiene; in the northern portion are the professor's private office and research rooms and the students' laboratory, while the southern portion contains the splendid museum of the department, a large room lighted from two sides as well as from above.

The third floor furnishes accommodation for the department of experimental medicine, a suite of rooms with modern equipment for research in all branches of medicine.

## Endowments.

The first endowments of the Faculty were the "Leanchoil" and "Campbell Memorial" funds. The former was the gift of Lord Strathcona; the latter subscribed by the citizens of Montreal and graduates in Medicine of the University. A portion of these funds was expended in increasing the laboratory and lecture room accommodation in 1885, the interest on the balance being applied to general maintenance.

In 1893 Lord Strathcona endowed the Chairs of Pathology and Public Health with $100,000. This gift enabled the Faculty to equip and develop these departments until they are quite up to the requirements of modern medical science.

Various other endowments, such as the Drake Endowment of Physiology and the bequests of the late Mrs. Mary Dow, Mrs. John MacDougall and Miss Jane Learmont, have enabled the Faculty to maintain a high standard of laboratory teaching without proportionately increasing the cost of the course to the student.

In 1898, Lord Strathcona and Mount Royal again came to the aid of the Faculty. He gave, in the names of Lady Strathcona and the Honorable Mrs. Howard, one hundred thousand dollars, to be used partially to meet the cost of extending the Laboratories, Library and Museum, and partially as a fund, the interest on which to be applied to replace the loss of the graduation fees, formerly used to support the Medical Library and Museum, but which are now required by the Governors for general university expenses outside the Faculty of Medicine.

The thanks of the Faculty are also due to Mr. David Morrice, who has recently come forward with a donation of upwards of three thousand dollars to meet the cost of increasing the equipment of the Laboratory of Pharmacology, and who has also contributed annually to the support of the Department of Pharmacology and Therapeutics.

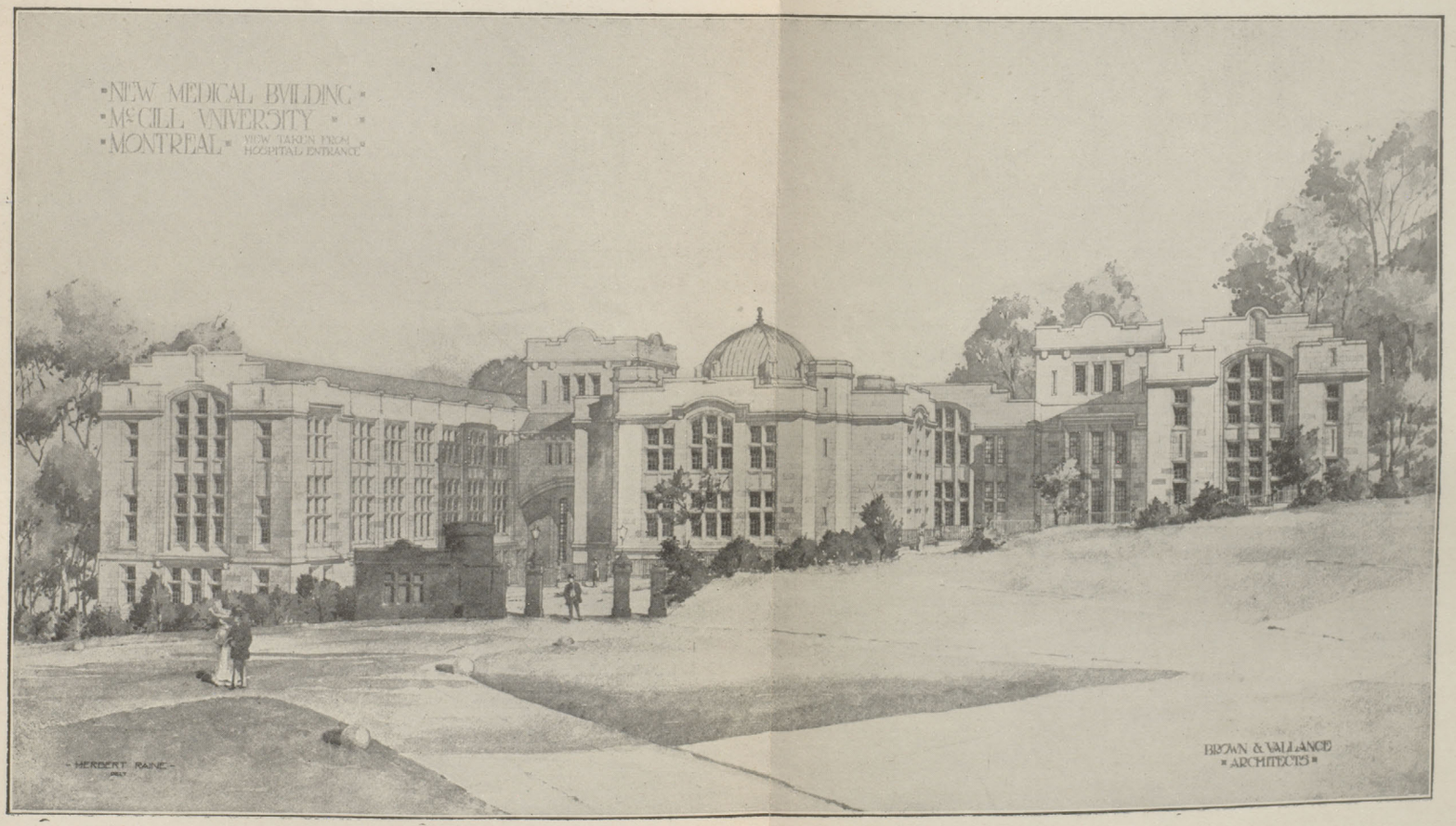
During the session of 1904-05 Lord Strathcona again contributed generously to the funds of the Faculty; the sum of $50,000 being given to enable the Faculty to meet its financial engagements.

In 1909 Lord Strathcona contributed the magnificent sum of $450,000 for the erection and equipment of the new building on Pine Avenue.

In June, 1911, on the occasion of the formal opening of the new building Lord Strathcona gave an additional sum of $100,000 for equipment.

## Matriculation.

Intending students are reminded that a University degree in Medicine does not always give the right to practise the profession of Medicine. It is necessary to conform with the medical laws of the country or province in which it is proposed to begin practice. Each province in Canada at present has special requirements for its license and in most provinces a certain standard of general education is insisted upon before beginning the study of Medicine.




New Medical Building—Rear Elevation from Pine Avenue.

## Regulations of McGill University.

*All inquiries relating to the Examinations for entrance should be addressed to the Registrar of the University.*

*Beginning with the session of* 1910-11, *no student will be permitted to register in the Faculty of Medicine unless he has completely satisfied the matriculation requirements of the University.*

1. Every student before he can be enregistered as an undergraduate in Medicine must present a certificate of having passed the Matriculation Examination of the Faculty of Medicine of this University, or of having passed some Provincial, State or University Examination accepted by this University.

2. Graduates in Arts of any recognized university and those who have passed the Entrance Examination of a Provincial Medical Council, and thus become enregistered students in medicine of a province in Canada, are exempt from further preliminary examination.

3. Matriculation examinations (for entrance into all Faculties) are held only in June and September—in June at McGill College and (on application) at local centres; in September, at McGill College and the McGill University College of British Coumbia, in Vancouver and Victoria.

For the convenience of candidates in Great Britain, who are not otherwise qualified for entrance, an examination will be held regularly in London, Eng., each year, commencing on or about the 12th of June. The examination will be held at the City of London School, Victoria Embankment, London, E. C., under the directorship of Dr. J. D. McClure. Full information regarding the exact date of the examination, fee, etc., may be obtained from the Honorary Representative of the University, W. A. Evans, Esq., M.A., Secretary Headmasters' Conference, 12 King's Bench Walk, Temple, London, E.C.

4. Every candidate for examination is required to fill up an application form and return the same with the necessary fee (for which see page 44) one month before the examination begins. Blank forms may be obtained from the Registrar.

*No applications for examination in June will be received after May 20th.*

5. In order to obtain an examination at a local centre, the applicant must, before May 1st, submit to the Registrar the name of some suitable person, preferably a university graduate, who is willing to act as deputy examiner, i.e., receive the questions, hold the examination and forward the answers to Montreal. The University will be responsible for no other local expenses than the payment of the deputy-examiners.

6. The matriculation examination may be taken in two parts, candidates being free to make such a division of the subjects as may best suit their convenience. Credit will be given for any subjects passed at the first attempt, but unless all the requirements are completed, or at least all but two subjects, at the second, the whole will have to be taken over again. For the purposes of this regulation the June and September examinations shall be counted as one.

7. When two or more books or subjects are prescribed for one examination it is necessary to pass in each.

8. A candidate in order to pass must obtain at least 40 per cent. of the total number of marks allowed for each subject.

9. The following certificates and diplomas will, if submitted to the Registrar, be accepted *pro tanto* in lieu of the matriculation examination, *i.e.*, in so far as the subjects and standard of the examination taken to obtain them are, to the satisfaction of the Matriculation Board, equivalent to those required for the matriculation examination of this University. Candidates offering certificates which are not a full equivalent will be required to pass the matriculation examination in such of the required subjects as are not covered thereby:—

**Province of Quebec.**

The University School Leaving certificate.
The Model School diploma, under certain conditions.

**Province of Ontario.**

Junior and Senior Teachers' certificates.
Junior and Senior Matriculation certificates.

**Province of New Brunswick.**

First Class, Superior and Grammar School licences.

**Province of Nova Scotia.**

The leaving certificates of Grades XI and XII.

**Province of Prince Edward Island.**

First Class Teachers' licences.
Second Year certificates of Prince of Wales College.

**Province of British Columbia.**

Intermediate and Senior Grade certificates.

**Alberta and Saskatchewan.**

The Departmental examination certificates for Standards VII and VIII.

**Newfoundland.**

Associate Grade certificates.

**Great Britain.**

The School and Matriculation certificates of the universities of Oxford, Cambridge and London, and the Leaving examination certificates of the Scotch Education Department.

Applications for exemption from the matriculation examination, based upon certificates of having passed examinations other than those above mentioned, will be considered as occasion may require by the Matriculation Board. Every such application must be accompanied by certificates and full particulars, and should be addressed to the Registrar.

## Matriculation Examination Fees.

| | |
|---|---|
| For the first examination* ..... | $5.00 |
| (For examination at a local centre where not more than two candidates are writing the fee will be determined by the Registrar, provided however, that it shall in no case exceed $12 for each candidate.) | |
| For a subsequent examination in one or two subjects ..... | 2.00 |
| For a subsequent examination in three or more subjects ..... | 3.00 |
| For examination of certificates, in respect of which candidates are exempted from the whole of the matriculation examination ..... | 1.00 |

Matriculation examination fees must be sent to the University Registrar at the time of application for the examination. No application will be accepted unless accompanied by the regular fee.

Certificates will be issued to successful candidates without additional fee.

## Subjects of Examination.

FACULTY OF MEDICINE.

1. **English Composition.**
2. **English Literature.**
3. **History.**
4. **Latin.**
5. **Algebra, Part I.**
6. **Geometry, Part I.**
7. **Chemistry.**
8. **Physics.**
9. One of the following:
   **Greek, French, German.**

---

* In the case of candidates who qualify on certificates, or by other examinations in all but three subjects, or less, the fee will be $3.00.

In addition to the certificates mentioned on page 43, the following are accepted in lieu of the matriculation examination for entrance in Medicine, provided they cover Latin:

The degree of Bachelor of Arts obtained from any recognized university.

A certificate of having passed the examination of a Provincial Medical Council.

In the case of candidates from the United States, a certificate of having passed a State or University examination fully equivalent to the matriculation examination required for entrance in this University.

No candidate will be admitted to the Faculty of Medicine without having satisfied all the Matriculation examination requirements.

Those who intend to practise Medicine in any of the Provinces of Canada will obtain information regarding registration and admission to study by corresponding with the Registrars of the several Provincial Medical Councils. (See page 53.)

## Requirements in Each Subject.

### History and Geography.

Candidates will be required to show a somewhat intimate acquaintance with the history of England, from 1485 to the present time. While any text-book written for the upper forms of schools may be used in preparation for the examination, Gardiner's Outline of English History (Longmans) is recommended.

The geography required will be that relating to the history prescribed.

One examination paper of two hours.

### English.

*Composition.*

As in Sykes's Elementary Composition, with an essay on some subject connected with the works prescribed in literature. Frequent practice in composition is essential.

*Literature.*

1911 and 1912.—Any two of the following: Shakspere's Julius Cæsar; Nineteenth Century Prose (ed. Cunliffe), pp. 127 to the end, with notes (Copp, Clark Co.); Poems of the Romantic Revival (Copp, Clark Co.), pages 83 to the end, with notes; Tennyson's Select Poems, editor Alexander (Copp, Clark Co.).

Two examination papers of two hours each.

An alternative paper will be set on the work specified in English for the Junior matriculation examination of the Province of Ontario.

Spelling will be tested by the candidates' papers in English Composition and Literature. Examiners in other subjects will also take note of mis-spelled words and will report flagrant cases to the Board.

**Greek.**

For 1911 and 1912—

*Texts.*—Xenophon, Anabasis, Book 1, Chaps. 1 to 8.

*Grammar.*—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

*Translation at Sight* from Greek into English.

*Composition.*—Translation into Greek of detached English sentences and easy narrative based on the prescribed texts.

Two papers of two hours each will be set; one on composition and translation at sight, the other on prescribed texts and grammar.

Alternative questions will be set on the work prescribed in Greek for the Junior matriculation examination of the Province of Ontario, if this differs from that specified above.

At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

**Latin.**

For 1911 and 1912—

*Texts.*—Cæsar, De Bello Gallico, Book IV, Chap. 20 to the end, and Book V; Ovid, Stories from the Metamorphoses (as in Gleason's "A Term of Ovid," American Book Company), lines 1 to 670.

*Grammar.*—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

*Translation at Sight* from Latin into English.

*Composition.*—Translation into Latin of detached English sentences and easy narrative based on the prescribed texts.

Two papers of two hours each will be set; one on composition and translation at sight, the other on prescribed texts and grammar.

Note.—The Roman method of pronouncing Latin is recommended.

An alternative paper will be set on the Latin texts prescribed for the Junior matriculation examination of the Province of Ontario, if these differ from those specified above.

At the September examination other texts in Latin equivalent to those specified may be accepted, if application be made to the Registrar at least a month before the day of the examination.

**French.**

*Grammar.*—A thorough knowledge of French accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

*Translation at Sight* into English of a French passage of moderate difficulty.

*Translation at Sight* into French of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of French Grammar. Candidates are required to pass in English-French translation as well as in the paper as a whole.

Books recommended:—Bertenshaw's French Grammar (Longmans), and Cameron's Elements of French Prose Composition (Holt & Co.).

One examination paper of two hours.

**German.**

*Grammar.*—A thorough knowledge of German accidence and of the syntax of the topics treated in Lessons 46, 47, 57, 58, 59 and 60 of the Joynes-Meissner Grammar, and as presented in the Joynes-Meissner, Van der Smissen, or any other German Grammar of equally good standing.

*Translation at Sight* into English of a German passage of moderate difficulty.

*Translation into German* of detached English sentences and of an easy English passage. Material for such translation is selected with a view to exemplifying the points of grammar included within the above limits.

TEXTS.—(Translation and grammatical study):—

For 1911 and 1912.—Volkmann, Kleine Geschicten (Heath & Co.); Stille Wasser, ed. Bernhardt (Heath & Co.). It is recommended that candidates should read the prescribed texts in the above order, beginning in Volkmann's Kleine Geschicten with Himmelsschlüssel and Siebenmeilenstiefel.

The Ontario Junior matriculation requirements in German will be accepted in place of the texts specified above.

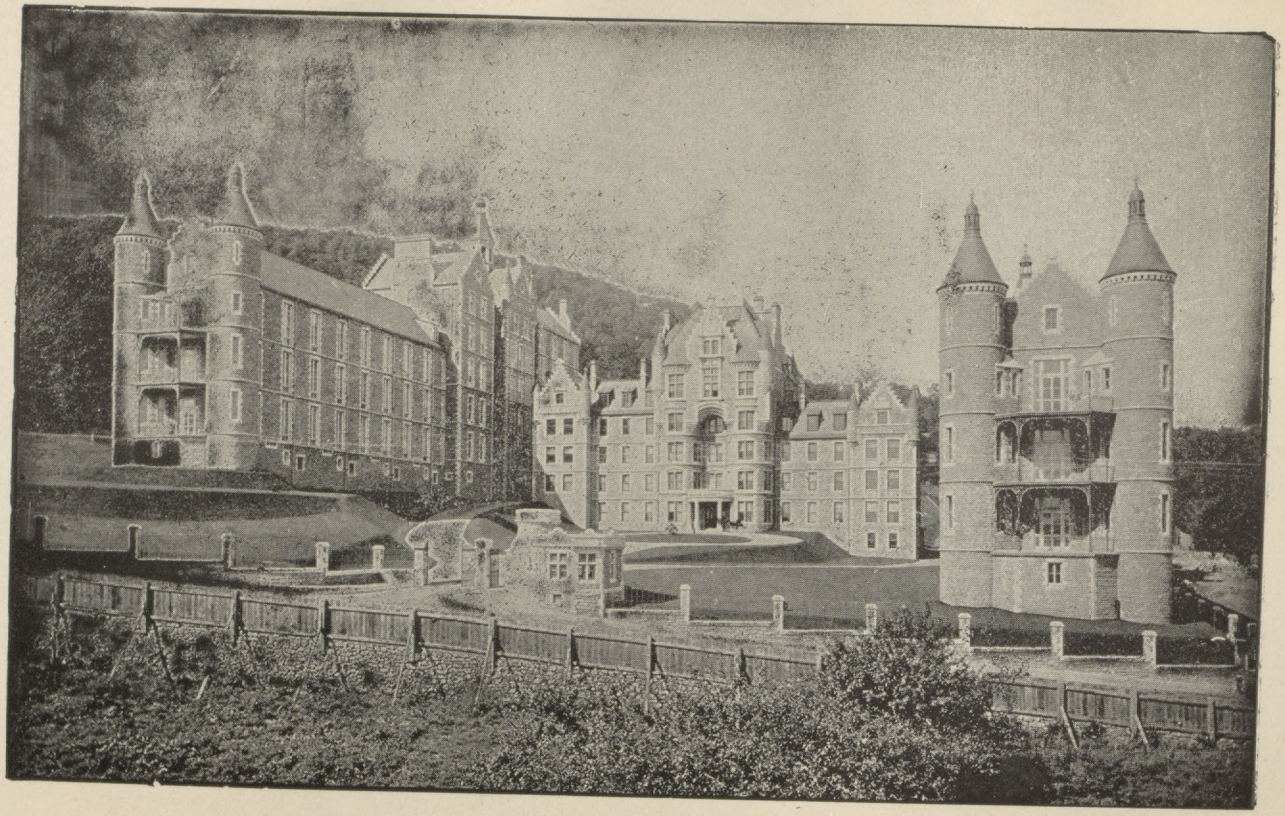
At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

One examination paper of two hours.

**Algebra, Part I.**

Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities; as in Hall and Knight's Elementary Algebra to the end of surds (omitting portions marked with an asterisk), or as in similar text-books.

One examination paper of two hours.



Royal Victoria Hospital.

**Geometry, Part I.**

Euclid's Elements, Books I, II, III, with easy deductions; or an equivalent.

An alternative paper will be set on the Ontario Junior matriculation requirements in this subject.

One examination paper of two hours.

**Chemistry.**

Elementary inorganic chemistry, comprising the preparation and properties of the chief non-metallic elements and their more important compounds, the laws of chemical action, combining weight, etc. The ground is simply and effectively covered by Remsen's "Elements of Chemistry," pp. 1 to 165 and 218 to 243. (Macmillan's Edition.)

One examination paper of an hour and a half.

**Physics.**

Properties of matter; elementary mechanics of solids and fluids, including the laws of motion, simple machines, work, energy; fluid pressure and specific gravity; thermometry, the effects and modes of transmission of heat.

Text-books recommended—Gage's Introduction to Physical Science, 1902 edition (Ginn & Co.), Chaps. I. to IV., inclusive; or Elementary Physics and Chemistry, Stages II. and III., by Gregory & Simmons.

One examination paper of an hour and a half.

**Dates of the Examinations.**

The examinations in 1911 will commence on Monday, June 12th, and on Thursday, September 21st. Special arrangements may be made for the examination of candidates who are prevented by severe illness or domestic affliction from presenting themselves on the dates fixed.

## MATRICULATION EXAMINATION TIME TABLE.

### SEPTEMBER, 1911.

#### THURSDAY, SEPTEMBER 21ST.

| | |
|---|---|
| Morning | 9–11.—English Grammar. |
| | 11–1.—English Literature. |
| Afternoon | 2.30–4.30.—English Composition. |
| | 4.30–6.30.—History |

#### FRIDAY, SEPTEMBER 22ND.

| | |
|---|---|
| Morning | 9–11.—Latin Authors. |
| | 11–1.—Arithmetic. |
| Afternoon | 2.30–4.30.—Latin Composition and Sight. |

#### MONDAY, SEPTEMBER 25TH.

| | |
|---|---|
| Morning | 9–11.—French. |
| Afternoon | 2.30–4.30.—German. |
| | 4.30–6.—Chemistry and Botany. |

#### TUESDAY, SEPTEMBER 26TH.

| | |
|---|---|
| Morning | 9–11.—Geometry, Part 1. |
| | 11–12.30.—Physics and Physiography. |

#### WEDNESDAY, SEPTEMBER 27TH.

| | |
|---|---|
| Morning | 9–11.—Algebra, Part I. |
| | 11–1.—Greek Authors. |
| Afternoon | 4.15–6.15—Greek Composition and Sight. |

## Physical Examination.

In order to promote as far as possible the physical welfare of the student body, every student, on entering the University will be required to pass a physical examination to be conducted by, or under the direction of, the Medical Director of Physical Education or by a recognized representative.

By such an examination physical defects and weaknesses, amenable to treatment, may be discovered. The student would then be expected to apply to his physician for such remedial measures as his case may require.

Students would also be advised as to the forms of exercise or athletic activities which would likely be beneficial or injurious.

## Application for Equivalent Standing.

Any student of another University who desires to be admitted to the Medical Department of this University with equivalent standing is requested to send his application to the Registrar of the Medical Faculty together with:—

1st.—A Calendar of the University in which he has studied, giving a full statement of the courses of study.

2nd.—A complete statement of the course he has followed.

3rd.—A certificate of the standing gained, and of conduct. These will be submitted to the Faculty, who will decide what examination may be necessary before admitting the candidate.

## Registration.

1. Candidates for entrance into the Faculty of Medicine, whether as undergraduates or partial students, are required, some time during the week preceding the opening day of the session, to attend at the office of the Registrar of the University, or such other place as he may designate, in order to furnish the information necessary for the University records, to register for the classes which they propose to attend, and

to sign the following declaration in the Matricula or Register: —"I hereby accept and submit myself to the Statutes, rules and ordinances of McGill Univrsity and of the Faculty in which I am registered and to any amendments which may be made while I am a student of the University, and I promise to observe the same."

On September 30th, 1911, all students previously enrolled who have not already registered for the sessions 1911-12, will do so in the Medical Building.

September 29th, 1911, will be special registration day for new students. They will register on that day in Molson Hall.

### Requirements for License.

*Intending students are reminded that a University degree in Medicine does not always give a right to practise the Profession of Medicine. It is necessary to conform with the Medical laws of the country or province in which it is proposed to begin practice. Each province in Canada at present has its special requirements for its license and in most provinces a special standard of general education is insisted upon before beginning the study of Medicine. Students who intend practising in Canada are warned that in most of the Provinces it is necessary to be registered four years before obtaining a license to practise. It follows that entrance qualification must be registered in the Province in which the student intends to practise at the beginning of his course in medicine, or not later than the beginning of the second year.*

*For the convenience of students a list of the names and addresses of the Registrars of the Medical councils in the several Provinces is here published. Students should make themselves thoroughly acquainted at the beginning of the course with the regulations governing registration and license to practise in the province in which they intend to practise.*

QUEBEC.—Dr. J. Gauvreau, 30 St. James Street, Montreal, and Dr. C. R. Paquin, Quebec, P. Q.

ONTARIO.—Dr. J. L. Bray, 170 University Avenue, Toronto, Ont.

NEW BRUNSWICK.—Dr. Stewart Skinner, St. John.

NOVA SCOTIA.— Dr. A. W. H. Lindsay, 241 Pleasant Street, Halifax.

PRINCE EDWARD ISLAND.—Dr. S. R. Jenkins, Charlottetown.

NEWFOUNDLAND.—Dr. H. Rendell, St. John's.

MANITOBA.—Dr. J. S. Gray, 358 Hargrave St., Winnipeg, or G. J. Laird, Registrar University of Manitoba, Winnipeg.

ALBERTA.—Dr. J. D. Lafferty, Calgary.

SASKATCHEWAN.—Dr. G. A. Charlton, Regina.

BRITISH COLUMBIA.—Dr. C. J. Fagan, Victoria.

### General Council of Medical Education and Enregistration of Great Britain.

The Matriculation Examination in Medicine of this University is accepted by the General Medical Council. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance on lectures, practical work and clinics are also accepted by the various examining boards in Great Britain. To obtain a license from the General Council it is necessary to pass one of the examining boards of Great Britain in both primary and final subjects.

Detailed information may be obtained from one of the three registrars: Henry E. Allen, B.A., 299 Oxford Street, London; James Robertson, 54 George St., Edinburgh; Richard J. E. Roe, 35 Dowson St., Dublin.

### Reciprocity with Great Britain.

*The General Council of Medical Education and Enregistration of Great Britain has entered into reciprocal relations with the Medical Councils of the Provinces of Quebec, Nova*

*Scotia and Prince Edward Island. A holder of a degree in medicine of McGill University who has obtained the License of the Province of Quebec, of Nova Scotia or of Prince Edward Island, may register with the Medical Council of Great Britain. He will thus be eligible for competitive examination for the Army, Navy and Civil Service, and will be allowed to practise in Great Britain, South Africa, Australia, India and the West India Islands without further examination.*

## Fees.

### General Regulations.

*All students must register with the University Registrar before paying their fees.*

1. Fees shall be paid to the Bursar on or before October 10th. The registration ticket must be shown to the Bursar, in every case, before the fee is paid. After October 10th an additional fee of $2.00 will be exacted of all students in default.

2. Immediately after October 20th the Bursar shall send to each professor and lecturer a list of the registered students who have not paid their fees, on receipt of which the professor or lecturer shall strike their names from the register of attendance, and such students cannot be re-admitted to their classes except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

Students registering after October 20th shall pay their fees at the time of registration, failing which they become subject to the provisions of Regulation 2.

For students registered previous to October, 1910, the total Faculty fees for the medical course of five full sessions, including laboratory work, reagents, and dissecting material will be six hundred and twenty-five dollars, payable in five annual installments of $125.00.

Beginning with the session of 1910-11 the total Faculty fees for the medical course of five full sessions, including clinics, laboratory work, dissecting material and reagents, will

Laboratory of Physiology.

be *seven hundred and fifty dollars,* payable in five annual instalments of $150 each.

This fee includes all hospital fees as well as the fee for grounds and athletics.

For the convenience of undergraduates under the old regulations, the Hospital fees are payable in the Bursar's office; ten dollars to be paid at the beginning of each of the last three sessions. This will entitle each undergraduate to perpetual tickets for both the Montreal General and Royal Victoria Hospitals.

The Maternity Hospital fee of $12, for twelve months, is payable at the Bursar's office, $6 at the beginning of the fourth, and $6 at the beginning of the fifth session.

*The sum of $10 is collected from all students at the time of registration as "Caution Money," from which deductions for breakages reported from the laboratories or lecture rooms are made and a refund granted at the close of the session.*

Partial students will be admitted to one or more courses on payment of special fees. An annual University fee of three dollars is charged students of all Faculties except students in medicine entering in and after October, 1910, for the maintenance of college grounds and athletics.

Students repeating the course of study of any Academic session are not required to pay full fees. A fee of thirty-five dollars will be charged, which will include dissecting material, chemical reagents, laboratory fees, etc. The same fee is charged students entering from other colleges who have already paid full fees elsewhere for the courses taken.

Students taking out extra dissecting material will be charged at the rate of $9.00 for half session, and $18.00 for a whole session.

An "*ad eundem*" fee of $10 is charged students entering from another university in the second, third, fourth or fifth year of the course.

The fee for the Degree of Doctor of Medicine and Master of Surgery is thirty dollars, to be paid by the successful candidate to the University Bursar immediately after the final examination.

The fee for the course in Public Health and the diploma is $50.

**Summary of Fees.**

*First Year (beginning 1910-11.)*

| | |
|---|---|
| Class fees | $150.00 |
| Caution money (deposit) | 10.00 |
| | $160.00 |

*Second Year.*

| | |
|---|---|
| Class fees | $150.00 |
| Caution money (deposit) | 10.00 |
| | $160.00 |

*Third Year.*

| | |
|---|---|
| Class fees | $125.00 |
| Caution money (deposit) | 10.00 |
| Hospitals | 10.00 |
| Athletics | 3.00 |
| | $148.00 |

*Fourth Year.*

| | |
|---|---|
| Class fees | $125.00 |
| Caution money (deposit) | 10.00 |
| Hospitals | 10.00 |
| Maternity Hospital | 6.00 |
| Athletics | 3.00 |
| Fee for Degree of M.D., C.M. (four year students) | 30.00 |
| | $184.00 |

*Fifth Year.*

| | |
|---|---|
| Class fees | $125.00 |
| Caution money (deposit) | 10.00 |
| Hospitals | 10.00 |
| Maternity Hospital | 6.00 |
| Athletics | 3.00 |
| For the Degree of M.D., C.M. | 30.00 |
| | $184.00 |

QUALIFICATIONS FOR THE DEGREE.*

1. No one will be admitted to the degree of Doctor of Medicine and Master of Surgery who shall not have attended lectures for a period of five eight months' sessions in this University, or some other university, college or school of medicine, approved by this University.

2. Students of other universities, so approved, who may be admitted on production of certificates to a like standing in this University shall be required to pass an oral examination in Primary Subjects, and all examinations in the Final Subjects in the same manner as students of this University.

3. Graduates in Arts who have taken two full courses in general chemistry, including laboratory work, two courses in biology, including the subjects of botany, embryology, elementary bacteriology and dissection of one or more types of vertebrata may, at the discretion of the Faculty, be admitted as second year students, such courses being accepted as equivalent to the first year in Medicine. Students so entering will, however, not be allowed to present themselves for the final examination in anatomy until they produce certificates of dissection for two sessions.

4. Candidates for the final examination shall furnish testimonials of attendance on the following branches of medical

* It should be understood that the programme and regulations regarding courses of study and examinations contained in this calendar hold good for this calendar year only, and that the Faculty of Medicine, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole of a student's course to the conditions here laid down.

education; provided, however, that testimonials equivalent to, though not precisely the same as those above stated, may be presented and accepted:—

| | |
|---|---|
| Anatomy.<br>Practical Anatomy.<br>Physiology.<br>Practical Physiology.<br>Chemistry.<br>Pharmacology and Therapeutics.<br>Principles and Practice of Surgery.<br>Obstetrics and Diseases of Infants.<br>Theory and Practice of Medicine.<br>Clinical Medicine.<br>Clinical Surgery. | Of which two full courses will be required. |
| Biology.<br>Medical Jurisprudence.<br>General Pathology.<br>Histology.<br>Gynæcology.<br>Hygiene and Public Health.<br>Practical Chemistry.<br>Ophthalmology.<br>Oto Laryngology. | Of which one full course will be required. |
| Physiological Chemistry.<br>Embryology.<br>Medical Physics.<br>Clinical Chemistry.<br>Pharmacy.<br>Pathological Anatomy.<br>Bacteriology.<br>Mental Diseases.<br>Pediatrics.<br>Medical and Surgical Anatomy. | Of which [one course] will be required. |

He must also produce certificates of having assisted at six autopsies, of having dispensed medicine for a period of three months, of having assisted at twenty vaccinations, and of having, under the direction of a properly qualified anæsthetist, administered an anæsthetic at least twice.

Courses of less length than the above will only be received for the time over which they have extended.

5. No one will be permitted to become a candidate for the degree who shall not have attended at least one full session at this University.

6. Every candidate must give proof of having attended during at least twenty-four months the practice of the Montreal General Hospital or the Royal Victoria Hospital, or of some other hospital of not fewer than 100 beds, approved by this University. Undergraduates are required to attend only the practice of the out-patient departments of the hospitals during the third year.

7. He must give proof of having acted as clinical clerk for six months in medicine and six months in surgery in the wards of a general hospital recognized by the Faculty, and of having reported at least 10 medical and 10 surgical cases.

8. He must also give proof of having attended for at least nine months the practice of the Montreal Maternity or other lying-in-hospital approved by the University, and of having acted as assistant for at least twenty cases.

9. Every candidate for the degree must, on or before the 20th day of April, present to the Registrar of the Medical Faculty testimonials of his qualifications, entitling him to an examination, and must at the same time deliver to the Registrar of the Faculty an affirmation or affidavit that he has attained the age of twenty-one years.

10. The trials to be undergone by the candidate shall be in the subjects mentioned on pp. 60 and 61.

11. The following oath or affirmation will be exacted from the candidate before receiving his degree.

### SPONSIO ACADEMICA.

In Facultate Medicinæ Universitatis.

Ego, A—— B——, Doctoratus in Arte Medica titulo jam donandus, sancto, coram Deo cordium scrutatore, spondeo:—me in omnibus grati animi officiis erga hanc Universitatem ad extremum vitæ halitum persevaturum; tum porro artem medicam caute, caste et probe exercitaturum et quoad in me est, omnia ad ægrotorum corporum salutem conducentia cum fide procuraturum; quæ denique iter mendendum, visa vel audita silere conveniat, non sine gravi causa vulgaturum. Ita præsens mihi spondenti adsit Numen.

## EXAMINATIONS.

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

The **Pass** and **Honour** examinations at the close of each session are arranged as follows :—

### First Year.

Examinations in **Biology, Embryology, Anatomy, Histology Medical Physics, General Chemistry, Practical Chemistry and Elementary Bacteriology.**

Students who have taken one or more University courses in biology or chemistry before entering may be exempted from attendance and examination. Students exempted in these first year subjects are allowed only a pass standing, but may present themselves for examination if they desire to attain an honour standing. Students exempted from the inorganic chemistry of the first year must take the organic chemistry of the second year in their first year.

### Second Year

Examinations in **Anatomy, Physiology, Organic and Biological Chemistry, Histology and Pharmacy.**

### Third Year.

Examinations in **Physiology, Physiological Chemistry, Pharmacology General Pathology, Bacteriology, Clinical Chemistry, Clinical Medicine and Clinical Surgery.**

### Fourth Year

Examinations in **Medicine, Surgery, Obstetrics, Gynaecology, Ophthalmology, Oto-Laryngology, Pharmacology and Therapeutics, Medical and Surgical Anatomy, Mental Diseases, Medical Jurisprudence, and Hygiene.**

### * Fifth Year.

Examinations in Medicine, Surgery, Clinical Medicine, Clinical Surgery, Special Pathology, Gynæcology, Obstetrics, Ophthalmology, Oto-Laryngology.

*A minimum of 50 per cent in each subject is required to pass and 75 per cent. for honours.*

The work of one session must be completed and all examinations passed before a student is permitted to advance to the next.

Students who fail at the regular examinations in not more than three subjects of the first or second years and in not more than two subjects of the third or fourth years, may take the supplemental examinations before the beginning of the following session. These examinations will be held during the week preceding the regular opening of the session.

Students of the first, second, third or fourth years who fail in more subjects than are above specified are not eligible for supplemental examinations and must repeat the work in the subjects in which they failed.

Students who fail to pass in a subject in which practical work is required may, at the discretion of the examiner, be required to repeat the course and furnish a certificate of attendance thereon.

Students who fail in one subject only of the final year may, at the discretion of the Faculty, be allowed a supplemental examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional hospital attendance or laboratory work before presenting himself for examination.

Students who fail at the examinations held at Christmas may, at the discretion of the examiners, be granted supplemental examinations at a period not less than three months after the regular examinations.

---

* A special examination in prescription writing will be demanded and must be passed before receiving standing in pharmacology and therapeutics.

A student who after being registered in the first, second, third or fourth years for three successive sessions fails to qualify for advancement, or who after being registered in the final year for three successive sessions fails to qualify for the degree, shall not be permitted to register again as a student of medicine in the University.

Applications for supplemental examinations must be in the hands of the Registrar at least three days before the date set for the beginning of the examination and they must be accompanied by a fee of $5.00 for each subject.

## FELLOWSHIPS, MEDALS AND PRIZES.

1. FELLOWSHIPS.— The Faculty has established Teaching and Research Fellowships in connection with the various laboratories.

The fellowships are of a value of five hundred dollars per annum, are open only to graduates in Medicine, and are tenable for three years.

Two are now established in connection with the department of Pathology—a Governor's Fellowship endowed by one or two of the Governors of the University, and a Faculty Fellowship established by the Faculty. Other Fellowships will be announced as they are established.

The sum of $10,000 has been received by the Faculty from the Committee of the A. A. Browne Memorial Fund. With this sum a fellowship has been established to be known as the "A. A. Browne Memorial Fellowship."

This fellowship is open to graduates of any recognized Medical School and is for the Advancement of Medical Science, special preference being given to the subjects of Obstetrics and Gynæcology.

2. MEDALS.—The "Holmes Gold Medal," founded by the Medical Faculty in the year 1865, as a memorial of the late Andrew Holmes, Esq., M.D., LL.D., late Dean of the Faculty of Medicine. It is awarded to the student of the graduating class who receives the highest aggregate number of

marks in the different branches comprised in the Medical Curriculum.

The student who gains the Holmes' Medal has the option of exchanging it for a Bronze Medal and the money equivalent of the Gold Medal.

"The Sutherland Gold Medal," founded in 1878 by the late Mrs. Sutherland in memory of her late husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty. It is awarded for the best examination in General and Medical Chemistry, together with creditable examination in the Primary branches. The examination is held at the end of the Third Year.

The "Wood Gold Medal" founded by Casey A. Wood, M.D., is awarded to the student of the graduating class who receives the highest aggregate number of marks in the clinical branches of the final year. The winner of the Holmes Medal and the winner of the Final Prize are not permitted to compete for this medal.

The "Woodruff Gold Medal" founded in 1907 by Thomas A. Woodruff, M.D., in memory of his late father, Samuel DeVeaux Woodruff, is awarded to the student of the Final year who receives the highest number of marks for a special clinical examination in the subjects of Ophthalmology and Oto-Laryngology.

3. Prizes.—The Final Prize.—A Prize in books awarded for the best examination, written and oral, in the Final branches. The Holmes' medallist is not permitted to compete for this prize.

The Joseph Hils Prize.—Founded by the late Dr. Joseph Hils of Woonsocket, R.I.—A prize in books awarded to the student who obtains the highest number of marks for a special examination in Materia Medica and Therapeutics.

The Joseph Morley Drake, M.D., Prize.—Founded by the late Joseph Morley Drake, M.D.—A microscope to be awarded to the student of the third year who obtains the highest number of marks for the examinations in Pathology and Bacteriology.

The Third Year Prize.—A Prize in books awarded for the best examination, written and oral, in the branches of the Third Year.

The Second Year Prize.—A Prize in books for the best examination in all the branches of the Second Year in course.

The First Year Prize.—A Prize in books for the best examination in all the branches of the First Year in course.

### MICROSCOPES.

Each student is required to provide himself on beginning his studies with a first-class microscope for laboratory and private study throughout his course. The Faculty will supply the instruments necessary for demonstrations, etc. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories, $^2/_3$, $^1/_6$, and $^1/_{12}$ oil immersion, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine.

Should the student not be provided with such a microscope he may, (1) purchase a guaranteed instrument from the purchasing department of the University for the sum of $60, or, (2) on depositing a bond for $60.00, signed by two property holders of his place of residence, hire and purchase a microscope from the University by paying the sum of $7.00 per annum for five years and the further sum of $40.00 at the expiry thereof.

Any student selecting plan (2) will have the entire control of the instrument and may use it at home during the holidays, but until the final payment of $40.00 shall have been made it shall remain the absolute property of the University, and no refund of any annual payment shall be made under any circumstances.

### Text Books.

ANATOMY.—Cunningham, Gray, Morris, Quain (Eng. Ed.) Gerrish, Piersol.

PRACTICAL ANATOMY.—Cunningham's Practical Anatomy, Ellis' Demonstrations, Holden's Dissector and Landmarks.

YSICS.—Carhart and Chute, Elementary Physics.
NERAL CHEMISTRY.—General Chemistry for Colleges, A. Smith.
GANIC CHEMISTRY.—Remsen.
LOGICAL AND CLINICAL CHEMISTRY.—Outlines of Physiological Chemistry, Beebe and Buxton; Hawk's Practical Physiological Chemistry; Clinical Chemistry, A. E. Austin.
*erence.*—Physiological Chemistry, Abderhalden; Witthaus' Manual; Medical Chemistry, Bartley.
ANY.—Gray's Text-Book of Histology and Physiology.*
RYOLOGY.—Bailey and Miller Text-Book of Embryology.
YSIOLOGY.—Halliburton, Howell, Foster, Stewart, Mills' Text-Book of Animal Physiology, American Text-Book, Brubaker, Hall, Ott.
TOLOGY.—Bailey, Stohr (American Ed.), Piersol, Schafer's "Essentials," Bohm and Davidoff.
HOLOGY.—Prudden, Beattie & Dixon, Ziegler, Coplin, McFarland, Stengel, Green, Coats, Adami's Principles of Pathology, Adami's Inflammation.
TERIOLOGY.—Muir and Ritchie, McFarland, Jordan, Connell.
ASITOLOGY.—Manson, Tropical Diseases (London, 1907); Stephen & Christophers, The Practical Study of Malaria (London, 1908); Brooke, Tropical Medicine and Hygiene (London, 1908).
KS OF REFERENCE.—American Text-Book of Pathology, Ziegler, Well's Chemical Pathology, Mallory & Wright's Technique, Cattell's Post mortem Technique, Chester's Determinative Bacteriology, and Wilson on The Cell.
CTICE OF MEDICINE.—Osler, Tyson, Wood and Fitz, J. M. Anders, Hare.
ICAL MEDICINE.—Rainey and Hutchison, Musser's Medical Diagnosis, Simon, Klemperer, Vierodt's Medical Diagnosis, Sahli, Diagnostic Methods, Emmerson, Faught's Laboratory Diagnosis.
*rence.*—Osler's Modern Medicine, Albutt and Rolleston's Systems of Medicine.
IENE.—Davies, Harrington, Abbott's Transmissible Diseases. Notter and Firth, Parks and Kenwood, Stevenson and Murphy, Bergey, Rohé.
ATIVE SURGERY.—Binnie, Treves, Kocher, Bughard.
ERY.—Park, Walsham, American Text-Book of Surgery, Da Costa, Rose & Carliss, Warren & Gould.
CAL JURISPRUDENCE.—Mann, Draper Legal Medicine.
TICAL THERAPEUTICS.—Forcheimer, Ortner Hare, Shoemaker.

---

Each student will be required to pay $2.50 in order to cover the cost of a class dissecting instruments and other necessaries which are supplied to him and e his own property.

PHARMACOLOGY.—Dixon, Cushny, Sollman, Wood, Butler.

*Reference.*—United States Dispensatory, Remington's Pharmacy.

DISEASES OF CHILDREN.—Holt, Still, Ruhrah, Thomson, Koplik, Chapin & Piesk, Rotch.

NERVOUS DISEASES.—Church and Peterson, 5th ed. Atlas of the Nervous System and its Diseases, Jacob, Starr.

MENTAL DISEASES.—Insanity and its Treatment, Blandford, 4th Ed. Reference: A Practical Manual of Insanity.—Brown & Bannister, Kraft Ebing.

DERMATOLOGY.—Stellwagon, Malcolm Morris, Walker's introduction to Dermatology, Hyde and Montgomery, Crocker, Pusey, Shamberg.

OBSTETRICS.—Jewett, Hirst, American Text-Book, Jellet, Wright, Evans' Pocket Text-Book, McGill Obstetric Note Book, Renouf's Obstetric Phantom.

DISEASES OF INFANCY.—Fisher.

GYNAECOLOGY.—Hart and Barbour, Dudley on Diseases of Women, Montgomery, Webster, Tod Gilliam.

OPHTHALMOLOGY.—Swantzy; The Commoner Diseases of the Eye, Wood & Woodruff; De Schweinitz; Fuchs.

OTO-LARYNGOLOGY:—Politzer; Watson Williams; H. Tilley; J. B. Kyle; Gleason, Barnhill-Wales, Ballenger; J. J. Kyle; Packard; Albert Gray.

MEDICAL DICTIONARY.—Gould, Dorland, Dunglison, Hoblyn. Reference Hand-Book of the Medical Sciences.

# TIME TABLE OF LECTURES AND LABORATORY WORK.

## FACULTY OF MEDICINE.

### FIRST YEAR.

Time Tables for the Session 1911-1912 will be issued to students with their lecture room tickets at the time of registration. These will differ slightly, if at all, from those here shown.

| LECTURES. | Mon. | Tues. | Wed. | Thur. | Fri. | Sat. | Lecture Theatre. |
|---|---|---|---|---|---|---|---|
| Anatomy | 9 | 9 | ..... | 9 | 9 | ..... | Autumn Term |
| Physics | 2 | ..... | 2 | ..... | 2 | ..... | Autumn Term |
| Botany | 3 | ..... | 3 | ..... | ..... | ..... | Physics Bldg. Autumn Term |
| Zoology | ..... | 2 | ..... | ..... | 3 | ..... | No. III. Autumn Term |
| Inorg. Chem | 2 | ..... | 2 | 2 | ..... | ..... | Redpath Museum. Winter Term |
| Bacteriology | ..... | ..... | 9 | ..... | ..... | 9 | No. III. Redpath Museum |
| Embryology | ..... | 2 | ..... | ..... | 2 | ..... | Winter Term No. III. |
| **LABORATORY WORK.** | | | | | | | |
| Pract. Anatomy | 10 to 12.30 | 10 to 12.30 | 9 to 12.30 | 10 to 12.30 | 10 to 12.30 | ..... | Autumn Term. |
| | 9 to 12.30 | 9 to 12.30 | 9 to 12.30 | 9 to 12.30 | 9 to 12.30 | ..... | Winter Term. |
| Pract. Chemistry | 10 to 12.30 | ..... | 9 to 12.30 | 10 to 12.30 | ..... | 9 to 11.00 | Autumn Term. |
| Pract. Physics | 4–6 | ..... | ..... | 4–6 | ..... | .... | Autumn Term. |
| Pract. Botany | ..... | ..... | 4–6 | ..... | ..... | 11–1 | Autumn Term. Botanical Lab. |
| Pract. Zoology | ..... | 3–6 | ..... | ..... | 4–6 | ..... | Autumn Term, Histology Lab. |
| Pract. Histology | ..... | ..... | 4-6 | 4-6 | ..... | ..... | Winter Term. |
| Pract. Bacteriology | .... | 10–12 | ..... | ..... | ..... | 10–12 | From March 19th. |
| Pract. Embryology | ..... | 3–5 | ..... | ..... | 3–5 | ..... | From March 19th Histology Lab. |

## SECOND YEAR.

| LECTURES. | Mon. | Tues. | Wed. | Thur. | Fri. | Sat. | Lecture Theatre. |
|---|---|---|---|---|---|---|---|
| Anatomy | 9 | 9 | ..... | 9 | 9 | ..... | Winter Term. |
| Physiology | 2 | ..... | 2 | ..... | 2 | ..... | Session. No. II. |
| Organic Chemistry | 3 | ..... | 3 | ..... | 3 | ..... | Autumn Term. No. III. |
| Bio-Chemistry | 3 | 2 | ..... | ..... | 3 | .... | Winter Term. No III. |
| Pharmacy | 4 | ..... | 4 | ..... | ..... | ..... | From March 14th. No. II. |
| **PRACTICAL:** | | | | | | | |
| Anatomy | 9–12<br>10-12.30 | 9–12.<br>10-12.3 | 9–12<br>9–12 | 9–12<br>10-12.30 | 9–12<br>10-12.30 | ..... | Autumn Term.<br>Winter " |
| Physiology | ..... | 3–6 | ..... | 2–5 | ..... | ..... | Session. |
| Bio-Chemistry | 10-12.30 | ..... | 9–12 | 10-12.30 | ..... | ..... | Jan. to March incl |
| Pharmacy | 4–6 | ..... | 4–6 | ..... | ..... | ..... | From March 28th. |
| Histology | ..... | ..... | 4–6 | ..... | 4–6 | ..... | Autumn Term. |

## THIRD YEAR.

| LECTURES. | Mon. | Tues. | Wed. | Thur. | Fri. | Sat. | Term |
|---|---|---|---|---|---|---|---|
| Physiology | ..... | 10 | 10 | ..... | 10 | ..... | Session No. III. |
| Pharmacology | 10 | ..... | ..... | 10 | ..... | ..... | Session No. III |
| Bacteriology | 9 | ..... | 9 | ..... | 9 | ..... | Autumn. |
| Pathology | 9 | ..... | 9 | ..... | 9 | ..... | Winter. |
| Parasitology | ..... | 9 | ..... | 9 | ..... | ..... | Last 6 weeks. |
| Clinical Medicine | 11.30<br>12.30 | 11.30<br>12.30 | ..... | 11.30<br>12.30 | 11.30<br>12.30 | ..... | Session. |
| Clinical Surgery | 11.30<br>12.30 | 11.30<br>12.30 | ..... | 11.30<br>12.30 | 11.30<br>12.30 | ..... | Session. |
| **PRACTICAL WORK:** | | | | | | | |
| Physiology | 2–5 | ..... | ..... | ..... | 2–5 | ..... | Winter. |
| Pharmacology | ..... | ..... | 3–5 | ..... | ..... | 10–12 | Session. |
| Bacteriology | 3–6 | 3–6 | ..... | 3–6 | 3–6 | ..... | Autumn. |
| Pathology | 2–4 | 2–4 | ..... | 2–4 | 2–4 | ..... | Winter. |
| Physiol. Chemistry | 3–6 | 3–6 | ..... | 3–6 | 3–6 | ..... | Autumn. |
| Clinical Microscopy | 4–6 | 4–6 | ..... | 4–6 | 4–6 | ..... | 1st 10 weeks, Win. Term. |
| Clinical Chemistry | 4–6 | 4–6 | ..... | 4–6 | 4–6 | ..... | Last 6 weeks, Win. Term. |

Optional advanced course in Clinical Chemistry, 3-6 Friday, 9-12 Saturday, last five weeks of session.

## FOURTH YEAR.

| LECTURES. | Mon. | Tues. | Wed. | Thur. | Fri. | Sat. | TERM. | Lecture Theatre. |
|---|---|---|---|---|---|---|---|---|
| Medicine | | 10 | | 10 | | | Session | A |
| Surgery | 10 | | | | 10 | | Session | A |
| Obstetrics | | | 9 | | 9 | | Session | A |
| Gynæcology | | 4 | 4 | | | | Autumn | A |
| Therapeutics | | 9 | | 9 | | | Session | A |
| Ophthalmology | 3 | | | | | | Autumn | M. G. H. |
| | | | | | 4 | | Autumn | A |
| | | 3 | | | 3 | | Winter | R. V. H. |
| Oto-Laryngology | | 3 | | | 3 | | Autumn | M. G. H. |
| | 3 | | | | 3 | | Winter | R. V. H. |
| Pediatrics | | | | | 4 | | Winter | A |
| Applied Anatomy | | 4 | | 4 | | | Winter | A |
| Mental Diseases | 9 | | 11 | | | | Autumn | No. II. |
| Jurisprudence | 9 | | 11 | | | | Winter | A |
| Hygiene | | | 10 | | | | Session | No. II. |
| Hygiene (Laboratory) | 4-6 | | | | | | Session | Hygiene Lab. |
| Special Pathology | 10.45 | | | 10.45 | | | Session | B |

## GENERAL STATEMENT AND PLAN OF INSTRUCTION.

The period of study for the degree of Doctor of Medicine and Master of Surgery has been increased to five sessions of eight months each. This step has been taken by the Faculty only after a careful study of the requirements of a modern medical education. The crowded state of the curriculum under the old four year system made it difficult for a student to do more than attend the required number of lectures, clinics and demonstrations, leaving little time for reading and none at all for recreation. With the additional year, by a re-arrangement of the curriculum, more time will be given to the fundamental subjects of chemistry, physics and biology, while a thorough grounding will be given in the important subjects of anatomy, physiology, pharmacology and histology. The teaching in these branches as well as in pathology and bacteriology is largely conducted in the well equipped laboratories of the college. The greater part of the added year is devoted to clinical instruction as in addition to the time provided in the third and fourth years, the fifth year will be given over practically, entirely to clinical work in the wards of the hospitals. As a field for clinical study the wards of the Montreal hospitals afford opportunity not surpassed even in the large centres of Europe, and the fact that the clinical professors in the University are the attending physicians and surgeons of these hospitals makes it possible for our students to take full advantage of this wealth of clinical material.

Under the new arrangement of the curriculum the subjects will be taken up in the following order:

*In the First Year*: Biology, embryology, anatomy, general chemistry (theoretical and practical), physics, histology and bacteriology.

*In the Second Year*: Anatomy is continued throughout the session; histology is concluded at Christmas; physiology is taken up for the first time and is continued throughout the session. There is a thorough course in organic and biolo-

gical chemistry with laboratory work and a short course in pharmacy.

*In the Third Year*: Physiology is continued; pharmacology is taken up and also pathology, bacteriology, clinical microscopy, physiological chemistry and clinical chemistry. In this year students visit the hospitals for the first time, and receive instruction in small groups in the elements of clinical medicine and surgery.

*In the Fourth Year*: Systematic courses of lectures will be given in the following subjects: medicine, surgery, obstetrics, gynæcology, medical and surgical anatomy, materia medica and therapeutics, mental diseases, medical jurisprudence and pediatrics. In ophthalmology and oto-laryngology instruction in the use of instruments and the examination of normal cases will be given. In this year also there will be given a course in hygiene and preventive medicine, consisting of lectures, demonstrations and practical laboratory work. Theatre clinics, ward classes and out-patient clinics will be conducted in the hospitals in medicine and surgery.

*In the Fifth Year*: Most of the students' time will be spent in the hospitals. Theatre clinics will be given on four days in the week in each hospital in medicine and surgery. There will also be daily ward classes to groups of students in these branches. In the out-patient departments of both hospitals there will be clinics to groups of students in the various special branches of gynæcology, ophthalmology, oto-laryngology, dermatology, orthopædics, pediatrics and genito-urinary diseases. Clinics, ward classes and demonstrations in obstetrics will be given in the new Maternity Hospital. Students of the fourth and fifth years will attend the Alexandra Hospital in groups for instruction in infectious diseases.

## ANATOMY.

PROFESSOR:—FRANCIS J. SHEPHERD, M.D., LL.D.

LECTURERS:—J. A. HENDERSON, M.D.
J. J. ROSS, B.A., M.D.
A. E. ORR, M.D.

DEMONSTRATORS:—C. K. P. HENRY, M.D.
J. A. NUTTER, B.A., M.D.
J. W. HUTCHINSON, M.D.
W. H. SMYTHE, M.D.
F. McKENTY, M.D.

Anatomy is taught in the most practical manner possible and its relation to medicine and surgery fully considered. For the five year course, the subject will be taken up as for the four year course, during the first and second years. The lectures are illustrated by the fresh subject, moist and dry preparations, sections, models, plates and drawings on the blackboard. Frequent examinations are also held.

A course of practical demonstrations in medical, surgical and topographical anatomy is also given in the fourth year of the course.

The department of *practical anatomy* is under the direct control and personal supervision of the Professor of Anatomy, assisted by his staff of demonstrators.

The methods of teaching are similar to those of the best European schools, and students are thoroughly grounded in this branch.

Every student must be examined *at least* three times on each part dissected, and no certificate is given unless the examinations are satisfactory.

Special demonstrations on the brain, thorax, abdomen, bones, etc., are frequently given. Prizes are awarded at the end of the session for the best examination on the fresh subject.

The Dissecting Room is open from 9 a.m. to 6 p.m. In consequence of the excellent Anatomy Act of the Province of Quebec, abundance of material can always be obtained.

## MEDICAL CHEMISTRY AND PHYSICS.

PROFESSOR OF ORGANIC AND BIOLOGICAL CHEMISTRY:—R. F. RUTTAN, B.A., M.D.

LECTURER IN BIOLOGICAL AND PHYSIOLOGICAL CHEMISTRY:—V. J. HARDING, B.Sc.

DEMONSTRATORS IN GENERAL CHEMISTRY:—V. R. KRIEBLE. A. O. HAYES, B.Sc.

DEMONSTRATOR IN CLINICAL CHEMISTRY:—R. H. M. HARDISTY, B.A., M.D.

PROFESSOR OF PHYSICS:—H. T. BARNES, D.Sc.

DEMONSTRATOR OF MEDICAL PHYSICS:—F. H. DAY, B.Sc.

### Physics.

Instruction in elementary physics for students in Medicine is given in the Physics Building of the University.

This is a course for students of the first year and consists of two lectures and two laboratory periods per week for the autumn term. The experimental lectures, as well as the laboratory work, have been especially planned to meet the requirements of students in Medicine. An examination on the work of the term is held at Christmas.

### Chemistry.

Instruction in chemistry for students in Medicine is given during a portion of each of the first three years.

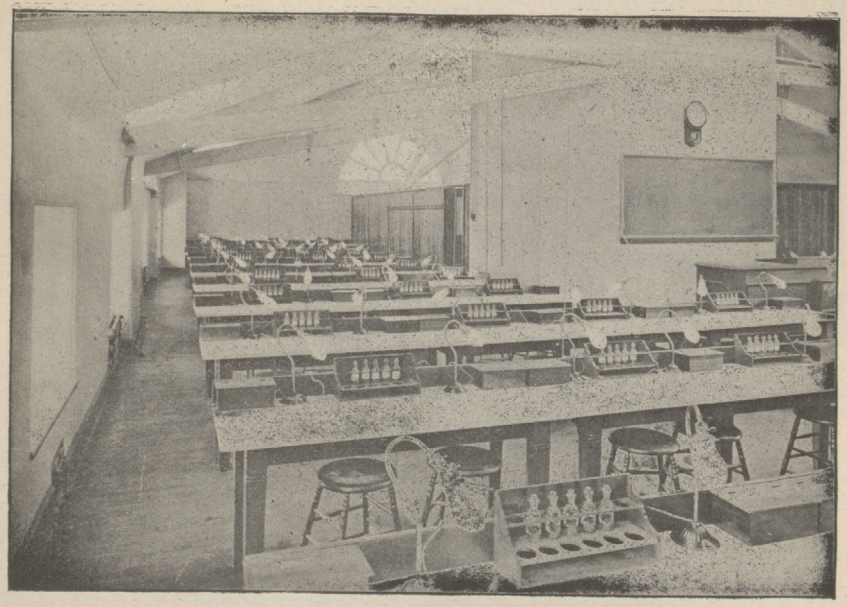
*First Year*: During the autumn term the principles governing chemical action are studied in a systematic laboratory course. A printed synopsis of the work of each day is provided and necessary explanations given before beginning the work. The course includes a study of chemical phenomena; the preparation and properties of typical elements and compounds; the laws of chemical action; gravimetric and volumetric determinations, and a short course in qualitative analysis. The student is required to pay special attention to the keeping of an accurate record of his observations and calculations. Note books for this purpose are provided and are examined and criticised by the demonstrators. An examination is held at Christmas.

During the second term of the first year a course of experimental lectures in general chemistry is given; three per week with frequent reviews and examinations. This course is designed to familiarize the student with the characteristics of chemical action and the conditions which modify it, rather than a detailed study of the preparation and properties of the elements and their compounds. The application of chemistry to physiology and pathology is made especially prominent. An examination in general chemistry is held at the end of the first session.

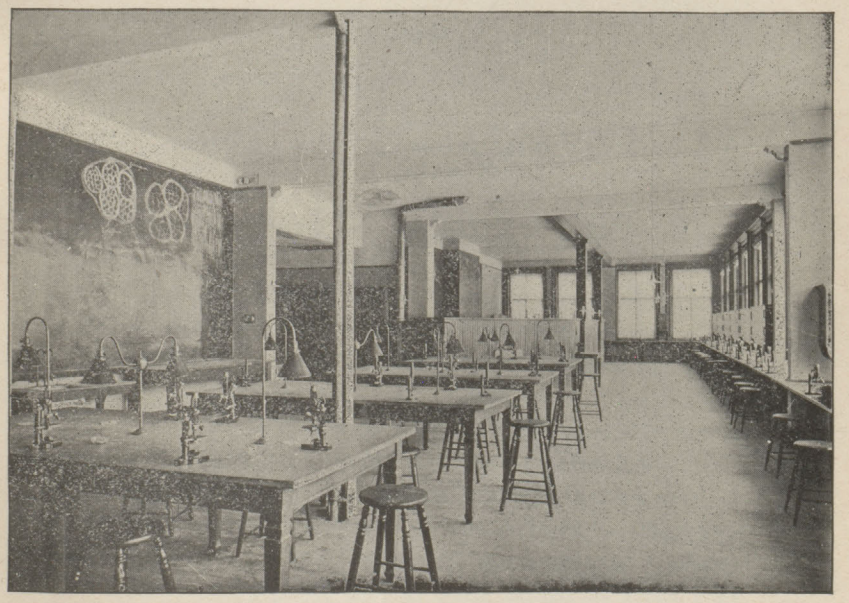
*Second Year*: A course of three lectures per week on organic and biological chemistry is given during the whole session. In this course the facts and theories of organic and physical chemistry, which have an essential bearing upon medical science, are first presented in the simplest form. This is followed by a more detailed study of those organic compounds and reactions which pertain to the phenomena of life. From Christmas to April laboratory work in organic and biological chemistry, two periods per week, will be given. In this course the student will study practically the chemistry of the more important organic substances which are found in the tissues, together with the chemical and physical conditions which influence their production. This course is intended to lead up to and partly include the subject matter of the usual courses in physiological and pathological chemistry.

The course includes a study of the carbon, nitrogen and energy cycles in nature; enzymes and catalysis; esterification, fats and lipoids; carbohydrates, amino acids, proteins, protein toxins, nuclein and purin bodies, urea, creatinin, indol, etc., together with the application of elementary physical chemistry to the problems of medicine and biology.

*Third Year*: A laboratory course of about six weeks in clinical chemistry is given to students at the end of their third year. In this course the student is made familiar with the more convenient and practical methods for the chemical and physical examination of urine, fæces, blood, stomach contents, etc., as a preliminary to their application to cases in the hos-



In the Zoological Laboratories.



Laboratory of Normal Histology.

pitals. In addition, exercises are given in the detection of certain poisons, food preservatives, etc., which are of easy application by the general practitioner.

An advanced optional laboratory course in clinical and biological chemistry will be given at the end of the third year to those students whose preliminary training in chemistry and standing in the pass courses show they are able to profit by it. This course will include the more recent exact methods of determination of creatinin, ammonia, acetone, etc., in urine, Kjeldahl determinations of nitrogen, cryoscopic determinations of fluids, etc., and must be taken by all candidates for the Sutherland medal.

Students will find it greatly to their advantage to have a practical knowledge of elementary chemistry before entering upon the study of Medicine. Graduates in arts of recognized universities, on presenting certificates of having taken courses in theoretical and practical chemistry, and of having passed examinations in the same, may be exempted from the chemistry of the first year.

## PHYSIOLOGY.

THE JOSEPH MORLEY DRAKE PROFESSOR:—N. H. ALCOCK, B.A., M.D.

LECTURERS:— A. A. ROBERTSON, B.A., M.D.; W. B. HOWELL, M.D.; T. P. SHAW, M.D.

DEMONSTRATORS:— A. L. C. GILDAY, B.A., M.D.; J. D. MORGAN, B.A., M.D.

The purpose of this course is to make the student thoroughly acquainted, as far as time permits, with modern Physiology—its methods, its deductions, and the basis on which the latter rest. Accordingly a full course of lectures extending over two years is given, in which the physical, the chemical, and other aspects of the subject receive attention.

In addition to the use of diagrams, models, lantern demonstrations, etc., every department of the subject is illustrated by experiment. An ample supply of apparatus is available for demonstration purposes and is being added to from year

to year so that the department may be kept fully abreast of the times.

The physiological laboratory is fitted up so as to permit of eighty students engaging in work at one time. The fittings and equipment of each bench are of the latest design and are well adapted to their purpose. An elaborate electrical equipment permits of all the various currents required for physiological experiments being supplied to each bench. The apparatus was constructed by the best American and European makers and was thoroughly tested before being accepted.

During recent years the laboratory work for students has been entirely rearranged. Since the session of 1901-02, when over three thousand dollars worth of new apparatus was purchased, there has been a steady advance which still continues. The practical work, like the lectures, now extends over two years. Each group of two students is supplied with all the apparatus necessary to carry out the work of verifying a large number of leading principles of physiology and registering the results by the graphic method.

Provision is also made for a course in chemical physiology, covering foodstuffs, digestion, the animal fluids, etc. The object of this course will be to assist the student to apply the knowledge obtained in the study of Biochemistry to Physiology. He will be shown the relationship of chemical changes in the laboratory to chemical changes occurring in the body. Under the head of food-stuffs the student will be taught the proportions of the various proximate principles in the common food stuffs and the effect of cooking upon them. The study of the digestive processes will include saliva and salivary digestion, the gastric juice and the changes in the stomach; pancreatic digestion; changes in the intestine and fæces.

Normal blood will be thoroughly studied chemically and physically under the following headings: proteins of blood, alkalinity, specific gravity, cases; inorganic constituents of the blood; changes taking place during the process of clothing; optical properties; the use of the spectroscope; estimation of

hæmaglobin; counting of corpuscles; freezing point, electrical conductivity, transudations related to blood.

Lessons will also be given on the chemistry of typical tissues and their products, such as the liver and bile, the pancreas and other glands; muscle, bone, hair, the end products of metabolism leading to the study of normal urine (nitrogenous excretion), respiration (gaseous excretion) and the energy equation.

Throughout the whole course the needs of the future practitioner of scientific medicine are kept in view.

## BIOLOGY.

PROFESSOR OF ZOOLOGY:—ARTHUR WILLEY, D.Sc., F.R.S.
ASSOCIATE PROFESSOR OF HISTOLOGY AND EMBRYOLOGY:—J. C. SIMPSON, D.Sc.
LECTURER IN ZOOLOGY:—J. STAFFORD, M.A., Ph.D.
DEMONSTRATOR:—A. E. ORR, M.D.

### A.—PLANT BIOLOGY.

(1) The course in plant biology is designed to introduce the student to a knowledge of such elementary structures and activities, and to a discussion of such biological principles as will be of service in the further prosecution of medical studies from a biological point of view. It will therefore deal with the structure of the plant cell in comparison with the animal cell, and establish the essential features of cytoplasm and nucleus; the functions of respiration and the distinction between ærobic and anærobic respiration; the storage of energy by green plants and the general features of constructive metabolism; the utilization of energy as exemplified by leucophytes, and the general characteristics of destructive metabolism or catabolism; the division of labour and the origin of organs; the origin and significance of sex with a discussion of parthenogenesis; the general principles of plant evolution.

These studies will be illustrated by the practical examination of a series of carefully selected types.

Prof. Willey—One lecture and one laboratory period each week throughout the autumn term.

### B.—Comparative Anatomy.

This course is designed to introduce the student to the fundamental principles of biology. After an introductory sketch of the scope and objects of the course, the lectures will take up in some detail the question of the structure and functions of protoplasm as illustrated by the simplest animals. This will be followed by a study of the principles governing the formation of tissues and organs, leading up to an outline of vertebrate anatomy and physiology in which special attention will be given to the mammalia.

The practical part of the course will consist of a thorough study of a series of types selected to illustrate the principles dealt with in the lectures. These types are:—Amœba paramœcium, a flagellate, Hydra, Lumbricus, Amphioxus, Scyllium, Rana, and Lepus.

Prof. Simpson.—Three lectures and three laboratory periods each week during the autumn term.

N.B. A special fee of $2.50 is charged against the caution money of each student attending the course in animal biology in order to cover the cost of instruments and laboratory note book supplied him.

### C.—Embryology.

The course in embryology, which follows that in animal biology, will be divided into two parts. The first part will deal with the following subjects:— The nature of the reproductive cells; the maturation, fertilization and segmentation of the ovum; the formation of the germ-layers; the development of the external forms of the embryo; the formation of the membranes. The second part will consist in a study of the development of the various tissues and organs in man.

Prof. Simpson.—Two lectures and two laboratory periods each week during the winter term.

## HISTOLOGY.

Associate Professor:—J. C. Simpson, D.Sc.
Lecturer:—Walter M. Fisk, M.D.
Assistant Demonstrator:—L. M. Lindsay, M.D.

The teaching of histology and histological methods extends throughout the first and second years. Lantern projections of

stained microscopic sections will be made use of to demonstrate the normal tissues and their relations.

In the first year the students' work will commence immediately after the Christmas holidays and will continue to the end of the session. The first part of the course will consist in practical instruction upon histological technique; the second part will be devoted to the study of cytology and the more elementary tissues of the human body. Lectures will be given on elementary histology. At the end of the session a written and a practical examination will be held.

During the second year the student will study and make drawings from specimens which have already been prepared. Preceding each day's work there will be a lantern demonstration of the specimens to be allotted. Lectures will be given on advanced histology and a written and practical examination will be held at Christmas.

## PATHOLOGY, BACTERIOLOGY AND PARASITOLOGY.

PROFESSOR:—J. G. ADAMI, M.A., M.D., LL.D., F.R.S.
ASSOCIATE PROFESSOR OF PARASITOLOGY:—J. L. TODD, M.D.,D.Sc., (Hon.)
ASSISTANT PROFESSORS:—A. G. NICHOLLS, M.D., D.Sc., F.R.S. Can.; LAWRENCE J. RHEA, M.D.; O. C. GRUNER, M.D. (Lond.).
LECTURERS:—JOHN MCCRAE, M.A., M.B. (Toronto); H. B. YATES, B.A., M.D.
DEMONSTRATORS OF PATHOLOGY:—R. P. CAMPBELL, M.D.; W. W. FRANCIS, M.D.
DEMONSTRATORS OF BACTERIOLOGY:—S. H. MCKEE, M.D.; J. C. MEAKINS, M.D.
ASSISTANT DEMONSTRATOR OF PATHOLOGY:—L. L. REFORD, M.D.

Owing to the change in the fourth and fifth year courses, some modification has been required in the teaching. The following courses are subject to revision:—

### Pathology.

1. A course in general pathology to students of the third year. Lectures are delivered three times weekly throughout the winter.

2. A course of demonstrations upon the performance of autopsies for students of the third year. These demonstrations are held weekly from October until Christmas.

3. Demonstrations upon the autopsies of the week to students of the two final years. These will be given during the session by the pathologists of the Montreal General and Royal Victoria Hospitals.

4. The performance of autopsies. Each student is required to take an active part in at least six autopsies. These are conducted at the General and the Royal Victoria Hospitals. In addition to the actual performance of the *sectio cadaveris*, the students are expected to attend practical instruction given with each autopsy in the method of preparation and microscopical examination of removed tissues, so as to become proficient in the methods of preparation, staining and mounting.

5. Practical course in morbid histology to students of the Third Year: two periods of two hours each, given weekly during the winter term. Students are instructed in the staining and mounting of specimens. Following upon this, in order that the student may make the fullest study of the material, and not spend most of his time in the mechanical processes of preparing it, at each period some five or six mounted sections are distributed to each; lantern demonstrations are given of the main features of the series, and the student is expected to make drawings of the salient features of each specimen.

6. A course in special pathology with demonstration of Museum specimens and oral examinations, weekly during the winter and spring terms to students of the fourth and fifth years. So far as possible this course will be conducted in correlationship with the lectures in medicine and surgery.

In addition to the above, the staff of the department gives instruction to more advanced students who desire to undertake special work in the laboratories: this more especially during the vacations.

Throughout the year the Curator of the Museum, Dr. M. E. Abbott, assisted by Drs. W. W. Francis and W. J. Kaufmann, conducts a series of museum demonstrations to students of

the third and fourth years in groups of twelve. The classes in clinical pathology and microscopy are described in connection with the Department of Clinical Medicine.

In connection with this Department a Research and Teaching Fellowship has been established by certain Governors of the University.

### Bacteriology.

1. A course of lectures upon elementary bacteriology for students of the first year.

2. A course of lectures upon bacteriology in relation to disease, for students of the third year. Lectures three times weekly during the autumn term.

3. A practical course upon bacteriological technique and the preparation of bacteriological media to students of the first year in the winter term. This is conducted by the staff of the Bacteriological Department.

4. A practical course upon the bacteriology of infectious diseases for students of the third year: two periods of two hours each per week during the autumn term. The object of this course is to familiarize the student with the characters of the more common pathogenic bacteria and more particularly to render him proficient in the employment of the methods of clinical bacteriological diagnosis.

### Parasitology.

The course of instruction given is, at present, optional. Its main feature is a series of fifteen lecture-demonstrations, copiously illustrated by lantern slides. Each lecture lasts for three-quarters of an hour; the remaining fifteen minutes of the period are devoted to an examination of specimens, both microscopical and macroscopical, and to the answering of questions put by the students. Demonstrations of the special methods used in the study of animal parasites are given in the laboratory.

Since the most important and most serious of the diseases caused by animal parasites are due to protozoa, most attention is paid to these organisms, and the diseases which are due to

more highly organized animal parasites are but briefly mentioned. In the lectures, a broad view is first given of the importance of the protozoa as pathogenic agents and of the methods by which their importance as producers of disease has been discovered. The protozoa are then considered as a whole and their functions and characters are considered. Malaria is the best known and most completely studied of all the diseases caused by protozoa; analogies to what is known to occur in malaria are frequently discovered during the investigation of minor studies of pathogenic protozoa. For this reason the parasite causing malaria, its life, its transmission, and the means of destroying it, are studied with considerable thoroughness. The diseases caused by amœbæ, by piroplasmata, by trypanosomes, by spirochætes and by protozoa of uncertain position are then considered, but with less detail than in the case of malaria. Only three lectures are spent on the worms and in alluding to those insects and other arthropoda which are immediately harmful through their parasitism upon men and animals.

## PHARMACOLOGY AND THERAPEUTICS.

PROFESSOR:—A. D. BLACKADER, B.A., M.D.
ASSISTANT PROFESSOR OF PHARMACOLOGY:—J. W. SCANE, M.D.
LECTURER IN PHARMACY AND DEMONSTRATOR OF PHARMACOLOGY:—J. L. D. MASON, M.D.
ASSISTANT DEMONSTRATOR:—F. W. NAGLE, M.D.

The lectures on this subject are graded in the following manner:—For students of the second year there is a course in practical materia medica and pharmacy, with demonstrations and exercises in the laboratory. Prescription writing and the various modes of administering drugs are explained and illustrated.

The course in pharmacology is given in the third year and consists of a systematic course of lectures on the physiological action of drugs, with demonstrations, and practical

laboratory work, during which the student is given the opportunity of studying by experiment the action of the more important drugs.

In the fourth year a systematic course on the therapeutic application of drugs and remedial measures will be given, and in the fifth year a course of special demonstrations in applied therapeutics in the wards of the Montreal General Hospital.

The Eddie Morrice Laboratory, comprising pharmacological and chemical research rooms, has, through the liberality of Mr. Morrice, been fully equipped with all necessary apparatus for carrying on extended research work.

## MEDICAL JURISPRUDENCE.

ASSISTANT PROFESSOR:—D. D. MACTAGGART, B.A.Sc., M.D.

In this course the criminal and civil aspects of legal medicine are taken up and fully discussed, also lunacy in its medico-legal aspects. Special attention is devoted to the subject of blood stains, the chemical, microscopic and spectroscopic tests for which are fully described and demonstrated, also the serum test for the detection of human blood. The modes of action of poisons, general evidence of poisoning and classification of poisons are first treated of, after which the more common poisons are described, with reference to symptoms, post-mortem appearance and chemical tests. The post-mortem appearances are fully illustrated by specimens. Practical demonstrations will be given once a fortnight by Professor MacTaggart.

## HYGIENE.

STRATHCONA PROFESSOR:—T. A. STARKEY, M.B., M.D.; D.P.H., (Lond.) F.R.S.I.
ASSISTANT:—MAJOR JACQUES, M.D., D.P.H.
DEMONSTRATOR:—F. B. JONES, M.D., D.P.H.

The instruction in hygiene given to the medical undergraduates has been carefully designed to meet the requirements of the practitioner in medicine.

The whole course is essentially practical in its nature and is in sharp contrast with the truly didactic method of teaching. It relates chiefly to the investigation of the causes of disease, the channels of transmission, and the adoption of modern preventive measures—all problems which are likely to confront the medical man daily in the prosecution of his duties.

One lecture and one demonstration period are allotted each week throughout the session.

The practical work includes a series of visits to places of hygienic interest.

An optional practical course more advanced than the one above referred to is open to students wishing to go into higher detail.

Special courses of instruction are given to graduates and others wishing to qualify themselves in sanitary work, or to obtain the diploma in Public Health. (See Special Courses in hygiene, page 97.)

The Laboratory is provided with all apparatus needed in every branch of public health work. Advanced students are furnished with separate quarters and with every facility for the prosecution of research work.

The museum is fully equipped and contains full sized working models and apparatus illustrative of the application of all hygienic principles. (See description of museum, p. 112.)

## MEDICINE AND CLINICAL MEDICINE.

PROFESSORS:—F. G. FINLEY, M.B., M.D.
H. A. LAFLEUR, B.A., M.D.
C. F. MARTIN, B.A., M.D.

ASSISTANT PROFESSOR:—W. F. HAMILTON, M.D.

LECTURERS:—G. GORDON CAMPBELL, B.Sc., M.D.
S. RIDLEY MACKENZIE, M.D.
A. A. BRUERE, M.D.
A. G. NICHOLLS, M.A., M.D., D.Sc.
JOHN MCCRAE, M.A., M.B. (Tor.)

LECTURER IN CLINICAL NEUROLOGY:—D. A. SHIRRES, M.D. (Aberdeen).

DEMONSTRATORS:—C. A. PETERS, M.D.
F. M. FRY, B.A., M.D.
H. B. CUSHING, B.A., M.D.
A. H. GORDON, M.D.
C. K. RUSSELL, M.D.
C. F. WYLDE, M.D.
J. C. MEAKINS, M.D.
A. A. ROBERTSON, M.D.

ASSISTANT DEMONSTRATORS:—A. G. MCAULEY, M.D.
J. G. BROWNE, M.D.
W. W. FRANCIS, M.D.
D. W. MCKECHNIE, M.D.
C. F. MOFFATT, M.D.
F. J. TEES, M.D.
R. H. M. HARDISTY, M.D.

A didactic course of fifty lectures is given in the fourth year, and deals with the general pathology and treatment of disease. The course is intended as an introduction to clinical work, and is illustrated by museum specimens, plates and diagrams.

### CLINICAL MEDICINE.

The instruction in Clinical Medicine is conducted in the theatres, wards, out-patient rooms and laboratories of the Royal Victoria and Montreal General Hospitals.

For the five year course the instruction extends throughout the third, fourth and fifth years. In the third year, demonstrations are given to groups of students in the methods of examination, and in normal and abnormal physical signs, in the wards and out-patient departments of the hospitals. This is supplemented by courses in clinical chemistry and microscopy at the College.

In the fourth year, a systematic course of didactic lectures is given, and clinical instruction is given in the theatres and out-door departments or wards of the hospitals.

The fifth year is devoted exclusively to hospital work. Each student is required to personally conduct and record the routine examination of patients assigned to him in the wards of the hospitals. He is also required to carry out the necessary examination of blood, sputum and urine in the hospital laboratories and to attend and report on autopsies on patients assigned to him. Instruction in the theatres and wards is given on four days of the week and, as occasion offers, joint sessions are held with the pathological department in which the clinical and pathological features of certain cases may be compared.

The out-door department of each hospital has a large neurological clinic, which is utilized for instruction, and for teaching the uses of electricity in diagnosis and treatment.

Special clinics are also devoted to the diseases of children, and groups of students attend in rotation.

Infectious diseases will be demonstrated to groups of students in the fourth and fifth years, the large number of cases under treatment at the Alexandra Hospital being available for this purpose.

## CLINICAL MICROSCOPY.

This course, which is given during the winter term of the third year, is essentially a practical one and is in charge of the Professors and teachers connected with the department of Clinical Medicine.

It is a laboratory course, forming part of the third year instruction in medicine, and is held in the pathological laboratory of the Medical Building. The classes are held twice weekly, each demonstration lasting two hours.

Students are given instruction in the microscopic appearances of the normal and abnormal sediments in the urine, in the preparation and staining of films from pus and sputum for pathogenic bacteria, in the methods of examination of the blood, including the use of the hæmoglobinometer, hæmocytometer, microspectroscope, the determination of the specific gravity, agglutination tests, the examination of fresh films, the preparation of stained blood films and the method of making differential leucocyte counts. The instruction also comprises the microscopic examination of stomach contents and fæces, for the recognition of abnormal cellular elements, fat, blood, bacteria and animal parasites; the examination of the secretions of the respiratory tract; the examination of exudates and other pathological fluids obtained by puncture, and also the examination of hairs for the parasites of ringworm and favus.

In addition to this the student is given an opportunity of examining the various bacteria of importance in clinical medicine and surgery.

Various specimens of special interest, which are found in the hospitals from time to time, are examined as occasion arises at the demonstrations.

## HISTORY OF MEDICINE.

PROFESSOR:—ANDREW MACPHAIL, B.A., M.D.

A course of twelve lectures will be given upon the history of medicine to all undergraduates in the Faculty who desire to inform themselves upon the progress of the science. It

is the intention to examine the causes which produced the varying conceptions of medicine in times past, rather than burden the student with a narration of facts and a recital of biographies.

## SURGERY AND CLINICAL SURGERY.

PROFESSOR:—GEORGE E. ARMSTRONG, M.D.

ASSISTANT PROFESSORS:— A. E. GARROW, M.D.; J. A. HUTCHISON, M.D.

ASSISTANT PROFESSOR OF SURGERY:—J. M. ELDER, B.A., M.D.

LECTURERS IN CLINICAL SURGERY:— J. M. ELDER, B.A., M.D.; KENNETH CAMERON, B.A., M.D; E. W. ARCHIBALD, B.A., M.D.; W. L. BARLOW M.D.; C. B. KEENAN, M.D.

DEMONSTRATORS OF CLINICAL SURGERY:— A. T. BAZIN, M.D.; A. R. PENNOYER, M.D.; E. M. VON EBERTS, M.D.; R. P. CAMPBELL, B.A., M.D.; W. H. P. HILL, M.D.

DEMONSTRATORS OF ORTHOPOEDIC SURGERY:— W. G. TURNER, M.D.; A. McK. FORBES, M.D.

ASSISTANT DEMONSTRATORS OF CLINICAL SURGERY:— C. K. P. HENRY, M.D.; F. McKENTY, M.D.; J. W. HUTCHINSON, M.D.; W. J. PATTERSON, M.D.

### PRINCIPLES AND PRACTICE OF SURGERY.

The teaching in surgery is largely clinical and is conducted in the Montreal General and Royal Victoria Hospitals.

In their third year students are instructed in the Out-Patient departments. They come in direct contact with the patients, are taught to differentiate the normal and the abnormal, and are instructed in bandaging and in the dressing and application of splints.

In their fourth year they attend the clinics in the amphitheatres of the hospitals, two days in the week, and witness the reduction of fractures and dislocations and are present during

the performance of operations. During the year students are taken into the wards in groups and are taught case reporting, diagnosis and the principles of treatment.

During their fifth year students receive instruction in surgery in the amphitheatres of the hospitals on four days of the week. They take part in the examination of patients, and in the discussion of symptoms present and the diagnoses and are present at operations.

A portion of each period is devoted to the consideration of the natural history of the condition present as well as the pathogenesis, complications, prognosis and therapeutic indications.

In addition students are expected to work two hours each day in the wards studying and reporting cases assigned to them, and taking part in the dressings when required.

They are also required to do a certain amount of laboratory work and to thus make the examination and reporting of their cases complete.

The clinical material in the Montreal General and Royal Victoria Hospitals is very large and varied. There are over four hundred beds and the service is very active.

The didactic lectures are given in the New Medical Building and are illustrated by a large collection of preparations from the Museum, by fresh specimens obtained from patients under observation in the hospitals, by plates, diagrams, drawings and illustrations thrown on the screen by the epidiascope.

The didactic lectures deal with the principles of surgery, and rare and unusual diseases and injuries which may not be illustrated in the wards of the hospitals. They are intended to be, so far as possible, complementary to the clinical teaching. In these lectures the student is given a broad and general view of surgery so that he may the more easily and intelligently follow the clinical teaching in the hospitals and more fully appreciate the many problems presented at the bedside.

## OBSTETRICS AND DISEASES OF INFANTS.

PROFESSOR:—J. CHALMERS CAMERON, M.D.

ASSISTANT PROFESSOR:—D. J. EVANS, M.D.

LECTURER:—H. M. LITTLE, B.A., M.D.

DEMONSTRATORS:— H. R. D. GRAY, B.A., M.D.
J. W. DUNCAN, M.D.
H. C. BURGESS, M.D.

This course will embrace: (1) Lectures on the principles and practice of the obstetric art, illustrated by diagrams, fresh and preserved specimens, the artificial pelvis, complete sets of models illustrating the deformities of the pelvis, wax preparations, bronze mechanical pelvis, etc.; (2) bedside instruction in the Montreal Maternity, including external palpation, pelvimetry, the management and after-treatment of cases; (3) a complete course on obstetric operations with the Tarnier-Budin phantom; (4) the diseases of infancy; (5) a course of individual clinical instruction at the Montreal Maternity Hospital.

The course is carefully graded and instruction will be given separately to students of the fourth and fifth years.

Particular attention is given to clinical instruction, and a clinical examination similar to that held in medicine and surgery, forms an important part of the final examination.

A few lectures will be given on diseases of infancy supplemented by clinical demonstration and ward work. The lecturers and demonstrators will give special courses from time to time in the college and in the hospital, and will take the students in groups for the purpose of demonstration, examination and review.

The adoption of the five-year-course necessitates some important changes in the methods and sequence of instruction.

In the fourth year will be given as far as possible the regular course of didactic lectures, together with instruction in palpation and operative work on the phantom.

The fifth year will be devoted mainly to practical and clinical work in the wards of the Montreal Maternity and in

its externe service.—Palpation on the living subject, theatre clinics, ward clinics, and individual instruction in the management of labour and the care of the puerperal patients will be the chief features of the course.

### DISEASES OF INFANTS AND CHILDREN.

PROFESSORS:—{ J. C. CAMERON, M.D.
A. D. BLACKADER, B.A., M.D.

LECTURERS:—{ D. J. EVANS. M.D.
G. G. CAMPBELL, M.D.

DEMONSTRATOR:—F. M. FRY, B.A., M.D.

Although this subject does not constitute a special chair in the University, systematic instruction is given (*a*) in connection with the chair of Obstetrics and Diseases of Infants by Prof. Cameron; (*b*) by a course of lectures, clinical and didactic, by Prof. Blackader; and (*c*) through the Children's Clinic at the Montreal General and Royal Victoria Hospitals, at the Infants' Home, and at the Montreal Foundling and Sick Baby Hospital.

### GYNAECOLOGY.

PROFESSOR:—W. W. CHIPMAN, B.A., M.D. (Edin.), F.R.C.S. (Edin.)

ASSISTANT PROFESSOR:—F. A. L. LOCKHART, M.B. (Edin.) M.D.

LECTURER:—DAVID PATRICK, M.D.

DEMONSTRATORS:—{ H. M. LITTLE, B.A., M.D.
J. R. GOODALL, B.A., M.D.

The didactic course consists of about twenty-five lectures given once weekly, alternating with lectures on obstetrics, and extending throughout the session. The anatomy and physiology of the organs and parts concerned are first discussed. Then the various methods of examination are fully described, the necessary instruments exhibited, and their uses explained.

The diseases peculiar to women are considered as fully as time permits, somewhat in the following order:—disorders of menstruation; leucorrhœa; diseases of the external genital organs; inflammations, lacerations and displacements of the

uterus; the infections of the pelvic peritoneum and cellular tissue and the uterine appendages, benign and malignant growths of the uterus; tumours of the ovary; diseases of the bladder and urethra. The lectures are illustrated as fully as possible by drawings, morbid specimens and lantern slides.

Clinical teaching, including out-patient and bed-side instruction is given at both the Royal Victoria and Montreal General Hospitals by Professors Chipman and Lockhart, assisted by Drs. Little, Patrick and Goodall. A large amount of clinical material is thus available for practical instruction in this department of medicine. Numerous operations are done before the class and made the subject of remarks. In addition to the ward-patients, each hospital conducts a large out-patient gynæcological clinic, to which advanced students are admitted in rotation, and instructed in digital and bi-manual examination and in the use of instruments for diagnosis.

Particular attention is thus given to clinical instruction, and a clinical examination in gynæcology similar to that held in medicine and surgery, forms part of the final examination.

## OPHTHALMOLOGY.

PROFESSOR:—J. W. STIRLING, M.B. (Edin.), M.D.

LECTURERS:—{ W. G. M. BYERS, M.D., D.Sc.
G. H. MATHEWSON, B.A., M.D.

DEMONSTRATORS:—{ F. T. TOOKE, B.A., M.D.
S. H. McKEE, B.A., M.D.

In the fourth year there will be a didactic course of about ten lectures delivered at the University. The more unusual diseases of the eye will be fully described while the commoner diseases will merely be touched on, the fuller consideration of the latter being reserved for the clinical lectures to be delivered in the fifth year. In addition in the fourth year there will be instruction in the anatomy of the eye, the methods of examination, the use of the Ophthalmoscope and refraction.

In the fifth year there will be a regular bi-weekly course of clinical lectures at the Royal Victoria and Montreal General

Hospitals as well as a tutorial course in operations on the cadaver, and also one on the bacteriology of the eye.

The operative work in eye surgery is fully open to undergraduates on the day set apart for the purpose.

## OTO-LARYNGOLOGY.

PROFESSOR:—H. S. BIRKETT, M.D.

DEMONSTRATOR OF RHINOLOGY AND LARYNGOLOGY:—H. D. HAMILTON, B.A., M.D.

DEMONSTRATOR OF OTO-LARYNGOLOGY:—W. H. JAMIESON, M.D.

DEMONSTRATOR OF RHINOLOGY AND LARYNGOLOGY:—
R. H. CRAIG, M.D.

ASSISTANT DEMONSTRATORS OF OTO-LARYNGOLOGY:—
H. S. MUCKLESTON, M.D.

HAMILTON WHITE, M.D.

J. T. ROGERS, M.D.

The course of instruction in oto-laryngology is carried on in the out-patients' department of both the Royal Victoria and the Montreal General Hospitals, where, owing to the large clinics, the students are afforded ample opportunity of receiving a thorough instruction in these subjects. The course is carried on in both the fourth and fifth years. In the fourth year the students receive instruction in: (a) The normal anatomy of the ear, nose and throat as exemplified in moist dissections, dried specimens, models, stereoscopic plates and radiograms of normal conditions of the accessory sinuses of the nose and mastoid process; (b) Instruction is given in the method of using the various instruments for examining the ear, nose and throat; (c) The usual tests for hearing are thoroughly illustrated and explained; (d) Instruction is given in the recognition of normal conditions of these special organs, as exemplified by clinical material.

In the fifth year the students have presented to them only pathological conditions affecting these organs. As many cases

as is possible are brought forward to illustrate the various diseases, and the clinical material thus presented is dealt with by a clinical lecture, and is further enlarged by gross pathological specimens, microscopical material and lantern slides.

In this year the students will also receive instruction as to the care of the deaf mute, the subject being dealt with by a lecture and practical illustration of the methods of educating these unfortunate children in the Mackay Institution for Deaf Mutes.

The courses are conducted in small classes, so that personal supervision is accorded to each student. The clinics are held twice a week, and continued throughout each session. An examination at the end of the fourth year will be only clinical, but that at the end of the fifth year will be both written and clinical.

## MENTAL DISEASES.

PROFESSOR:—T. J. W. BURGESS, M.D.

This course will comprise a series of lectures at the University on Insanity in its various forms, from a medical as well as from a medico-legal standpoint. The various types of mental diseases will be illustrated by cases in the Verdun Hospital, where clinical instruction will be given to visiting groups of senior students at intervals throughout the Session.

## DERMATOLOGY.

PROFESSOR:—F. J. SHEPHERD, M.D., LL.D. (Edin.)

LECTURERS:— G. G. CAMPBELL, M.D.
W. P. BURNETT, M.D.

ASSISTANT DEMONSTRATOR:—A. FREEDMAN, M.D.

The course is entirely clinical, consisting of a weekly theatre clinic at the Montreal General Hospital, by Prof. Shepherd, on especially selected cases, and two outdoor clinics, weekly, by Drs. G. G. Campbell, at the Montreal General Hospital, and W. P. Burnett at the Royal Victoria Hospital, throughout the Session. Lantern slides are made use of to illustrate the course; also a large series of colored plates and photographs.

## DOUBLE COURSES.

By special arrangement with the Faculty of Arts, it is now possible for students to obtain the double degree of B.A., and M.D., C.M., after seven years of study.

*For the guidance of those students entering a double course who intend to practise in the Province of Quebec, it is necessary under the regulation of the Quebec Licensing Board that they matriculate and register with the aforesaid Board not later than the end of their second year in Arts.*

### Course Leading to B.A. and M.D.

Under a new arrangement recently made with the Faculty of Arts the curriculum of the double course for the degree of B.A., M.D., has been considerably altered and improved.

Under this arrangement the double course student will spend the first three years in the Faculty of Arts, during the last two years of which however he will take up biology, including embryology and bacteriology and first year anatomy and histology of the Medical course. The fourth, fifth, sixth and seventh years will be spent entirely in the Medical Faculty. The curriculum of the first three years is as follows:

### First Year.

**English and History.**
**Greek or Latin.**
**Mathematics.**
**French or German.**
**Physics.**

### Second Year.

**English Composition.**
**Greek or Latin (as in First Year).**
**Chemistry (Arts).**
**Biology, Embryology and Bacteriology (Medicine).**
**French or German (as in First Year).**

### Third Year.

**Anatomy.**
**Organic and Biological Chemistry.**
**Histology.**
**English Composition.**
**Political Science.**
**English Literature.**
**Laboratory work, Organic Chemistry (optional Arts.)**

To secure privileges connected with the double course described above, certificates of registration in the Medical Faculty must be presented at the beginning of each year to the Dean of the Faculty of Arts; and at the end of each session in the second and third years certificates of attendance on lectures and of having passed the necessary examinations in the Medical Faculty must also be presented. At the end of the Fourth Year certificates must be presented to show that the full curriculum of the Medical Faculty for the year has been completed.

The Faculty of Medicine strongly recommends students to take an Arts course before beginning Medicine, whenever possible, devoting special attention to chemistry, biology, physics, and German. Should a student have but one year at his disposal he is advised to take chemistry, biology and physics of the Faculty of Arts as a preliminary training for Medicine.

## GRADUATE AND ADVANCED COURSES.

The Faculty of Medicine in 1896, established post-graduate and special courses in connection with the Montreal General and Royal Victoria Hospitals and the various laboratories in the University buildings. These courses will be continued in 1912.

A special detailed programme will be prepared, and will be sent on application in April next.

Arrangements have also been made to accommodate a limited number of such graduates who desire advanced and research work.

Commodious laboratories for advanced work have been equipped in connection with the Pathological and Clinical Departments of both the Royal Victoria and Montreal General Hospitals, and in connection with the College laboratories for physiology, chemistry, pathology and pharmacology.

Recent graduates of recognized universities desiring to qualify for examinations by advanced laboratory courses, or who wish to engage in special research, may enter at any time

by giving notice, stating the course desired and the time at their disposal.

All the regular clinics and demonstrations of both hospitals will be open to such students on the same conditions as to undergraduates in medicine of this University.

Further details regarding courses, fees, ets., may be obtained on application to the Registrar.

## SPECIAL COURSES IN HYGIENE.

In the session 1899-1900 the Faculty instituted a post-graduate course in Public Health and Sanitary Service and since that time other courses as described below have been instituted.

Special instruction is given in this department, leading to the Diploma of Public Health; also for engineers, architects, and those wishing to include this subject in their final examination for the degree of Doctor of Philosophy (Ph.D.).

### (1) Diploma Course in Public Health.

Candidates undertaking this course must have possessed a degree in Medicine, or other qualification for practice, for at least twelve months before he is competent to receive the diploma. The courses prescribed are as follows:—

1. A course of lectures in public health (to be omitted in the case of candidates who have attended such a course before graduation).

2. A three months' course in bacteriology, special attention being directed to the pathogenic organisms and parasites—such course to be omitted on presentation of proof that it has previously been taken.

3. A six months' course of practical study of out-door sanitary work under a medical officer of health (to be omitted in the case of medical health officers holding appointments prior to the establishment of this diploma course).

4. Three months' attendance and clinical instruction at a hospital for infectious diseases (unless such course has already been taken prior to graduation).

5. Three months' instruction in sanitary chemistry and physics, with practical work in a chemical laboratory.

The examination for the diploma shall cover the following subjects:—examination of clinical cases at an infectious hospital; the drawing up of outlines for annual and other reports of officers of health; a report upon the sanitary condition of some actual locality; the chemical analysis of liquids and gases and of specimens of food; demonstration of the consideration and use of meteorological, hygienic and sanitary apparatus; microscopical examination of specimens submitted; description of specimens of human and other diseased tissues; practical examination in the employment of the usual bacteriological methods; the inspection of carcasses of animals to be used for food.

The above examination shall be written, oral and practical, and shall extend over a period of four or five days.

The following is a list of subjects included in the curriculum of study:—

(*a*) *Sanitary Chemistry*:—Examination of air, gases, water, the action of water on metals, milk, food and beverages; detection of poisons in articles of dress and of decoration; the chemistry of sewage.

(*b*) *Sanitary Physics*:—Principles of statics, pneumatics, hydraulics, light and photometry, heat and thermometry, the principles of hygrometry (only in their application to hygiene).

(*c*) *Sanitary Legislation*:—Statutes and by-laws relating to public health; the powers of public sanitary authorities.

(*d*) *Bacteriology and Parasitology*:—Modes of propagation of disease and transmission of disease between man and man, and man and animals; bacteriological analysis in relation to public health matters; natural history of microbes and animal parasites.

(*e*) *Vital Statistics*:—Calculation and tabulation of returns of births, marriages, deaths, and diseases.

(*f*) *Metcorology and Climatology*, including the geographical and topographical distribution of disease.

(*g*) *Preventive Medicine and Practical Sanitation.*
The fee for the diploma shall be $50.00.

### (2) Course for Civil Engineers

This course is given to meet the requirements of engineers, particularly those making a specialty of sanitary engineering.

The object of the instruction is to elucidate the public health principles involved in engineering problems, *e.g.*, ventilation, water supplies, sewage disposal, and drainage systems.

### (3) Course for Architects.

Special instruction is given in those branches of public health relating to architectural work, *e.g.*, lighting and heating, ventilation, sanitary fixtures, draining and plumbing.

### (4) Course for the Degree of Doctor of Philosophy, (Ph.D.).

Hygiene, or some particular branch of it, may be taken out as a minor subject in the final examination for the Ph.D. degree. Special arrangements are made to suit the student in order that the work done in this department shall be a supplement to his major subject taken out in Applied Science.

### (5) Course for Promotion in the Army Medical Corps.

As hygiene forms one of the compulsory subjects in the examination for promotion in the Permanent Army Medical Corps, special classes are held for the purpose of giving instruction in this subject—particular attention being paid to military hygiene.

The attendance in this class counts towards the requirements for the Diploma of Public Health.

Courses (2) and (3) can be commenced at any time during the session, and usually are of about three months duration.

A small fee will be charged for each of the courses (2), (3), (4) and (5).

## CLINICAL INSTRUCTION.

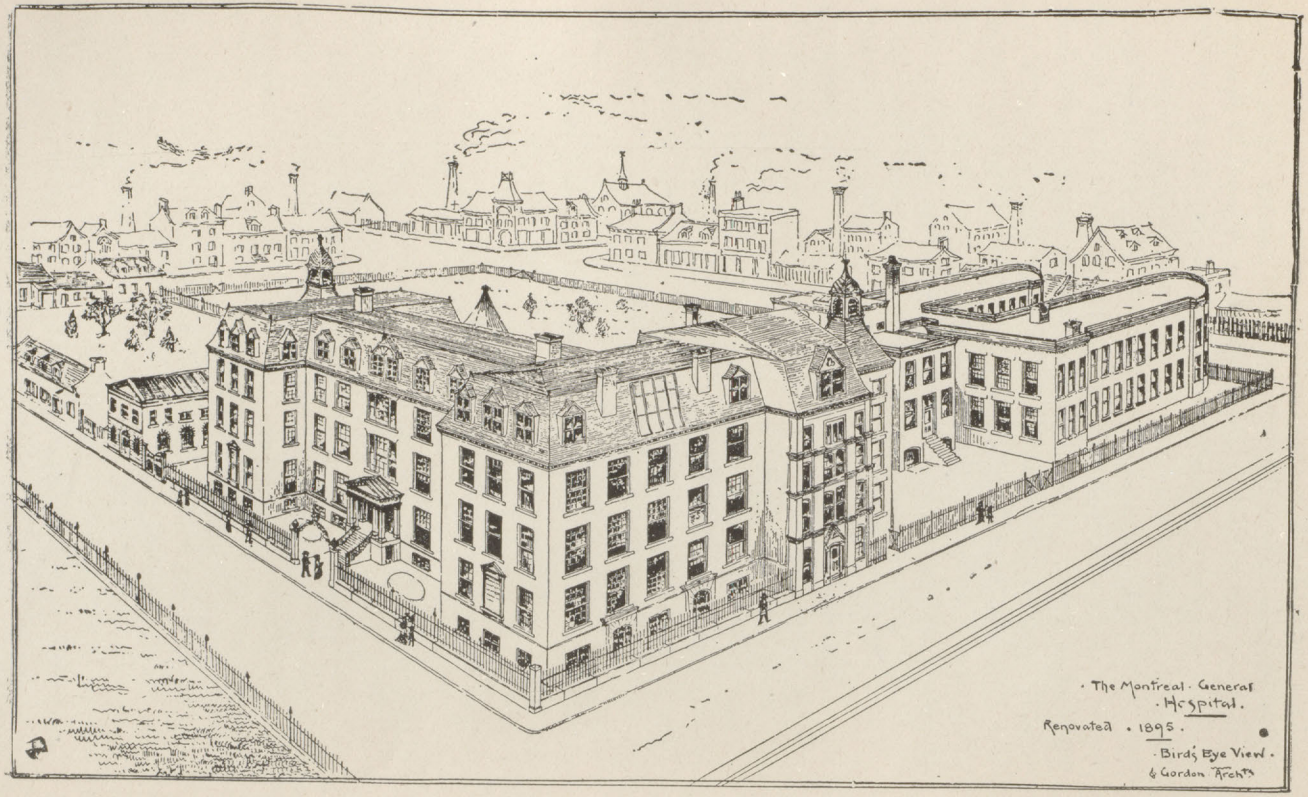
During the fourth year two medical and two surgical theatre clinics are given weekly in the Montreal General and Royal Victoria Hospitals. Out-patient clinics are given to groups of students twice weekly in Oto-Laryngology and Gynæcology and once weekly in Ophthalmology. In addition, on four days of the week instruction is given to groups at the bedside, in the laboratories, and in the medical and surgical out-patient departments.

In the Alexandra Hospital for Contagious Diseases, students of the fourth and fifth years will receive bedside instruction in groups.

The fifth year is devoted almost exclusively to clinical work. There are four clinics weekly in Medicine, four in Surgery, two in Obstetrics and two in Gynæcology, these being supplemented by group teachings in the wards and by instruction in the clinical laboratories. In addition groups receive instruction in Ophthalmology, Oto-Laryngology, Pediatrics, Dermatology, Gynæcology, Neurology in the out-patient departments of both hospitals. At the Montreal Maternity four ward classes weekly in Obstetrics are given.

CLINICAL CLERKS in the medical and surgical wards of both Hospitals are appointed every three months, and each one during his term of service conducts, under the immediate direction of the Clinical Professors, the reporting of all cases in the ward allotted to him. Students are required to show a certificate of having acted for six months as clinical clerk in medicine and six months in surgery, and are required to have reported at least ten cases in medicine and ten in surgery. The instruction obtained as clinical clerk is found to be of the greatest possible advantage to students, as affording a true *practical* training for his future professional life.

DRESSERS are also appointed to the out-door departments. For these appointments, application is to be made to the assistant surgeons, or to the resident surgeon in charge of the out-patient department.


· The Montreal · General
· Hospital.
Renovated · 1895 ·
· Bird's Eye View ·
& Gordon Archts

The large number of patients affected with diseases of the eye and of the ear, nose and throat, now attending the special clinics at both hospitals afford ample opportunity to students to become familiar with all the ordinary affections of those organs, and to make themselves proficient in the use of the various instruments used in examining them, and it is hoped that every student will thus seek to gain a practical knowledge of these important branches of medicine and surgery. Operations are performed on the eye and on the ear and nose and throat after the out-door patients have been seen, and students are invited to attend the same, and as far as practicable to keep such cases under observation so long as they remain in the hospital.

There are also special departments in both hospitals for gynæcology, pediatrics, neurology, orthopædics and genito-urinary diseases, directed by specialists in these branches. Students are thus enabled to acquire special technical knowledge under skilled direction. The plan of teaching practical gynæcology which has met with marked success has been the limitation of the number of students attending each clinic to four.

A large number of clinics are given at both hospitals in dermatology, thus affording a practical training in affections of the skin rarely obtained by medical students.

A special clinic for diseases of the genito-urinary organs has been established at both hospitals.

Clinical instruction is given in the wards of the Protestant Hospital for the Insane at Verdun.

The Clinical teaching in infectious diseases is given in the wards of the new Alexandra Hospital for Contagious Diseases.

## HOSPITALS.

The City of Montreal is celebrated for the number and importance of its public charities. Among these its public hospitals are the most prominent and widely known. Those in which medical students of McGill University will receive clinical instruction are: (1) The Montreal General Hospital;

(2) The Royal Victoria Hospital; (3) The Montreal Maternity Hospital; (4) The Alexandra Hospital for Contagious Diseases. (5) The Protestant Hospital for the Insane.

The Montreal General Hospital has for many years been the most extensive clinical field in Canada. The old buildings, having proved inadequate to meet the increased demand for hospital accommodation, have been increased by the addition of two surgical pavilions, the Campbell Memorial, and the Greenshields Memorial, and of a new surgical theatre. Plans have been prepared for the complete remodelling of the hospital and the further addition of a new out-patient department, a new clinical amphitheatre and clinical laboratories.

The Royal Victoria Hospital at the head of University Street, which in structure and arrangements ranks among the finest modern hospitals of either continent, was opened for the reception of patients the first of January, 1894, and affords exceptional opportunities for clinical instruction and practical training.

**Montreal General Hospital.**

This Hospital consists of a surgical, a medical and a pathological Department.

The surgical department has two large pavilions, containing four wards 135 feet long by 35 feet broad, with an intervening and connecting building in which is a large operating theatre of the most modern type, capable of seating over 350 students. In connection with this are preparation, etherizing, instrument, sterilizing and surgeons' rooms, also smaller operating rooms. The surgical pavilions accommodate over one hundred patients.

The old part of the hospital, consisting of the Reid, Richardson and Morland wings, has been completely rebuilt and remodelled, and forms the medical department. This part contains four wards, 100 feet by 40, and is arranged for 150 beds. In this building there are wards for gynæcological and ophthalmological patients, and a number of private wards and laboratories for clinical chemistry. There is also a med-

ical amphitheatre capable of seating 150 students and a gynæcological operating room fitted up in the most modern manner. The central part of the old building is for administration purposes.

Plans have been prepared for a new building in which there will be adequate provision for the out-door department, which is increasing its work with great rapidity. Special pains are being taken to provide facilities for the proper teaching of students, with a clinical amphitheatre and laboratories convenient to the various departments. This building when completed will be one of the most modern and spacious on this continent.

In this building students are offered every opportunity for perfecting their knowledge of morbid anatomy and pathological histology. Special opportunities and personal encouragement are given to those desirous of prosecuting special research work in bacteriology and pathology.

A much larger number of patients receive treatment in the Montreal General Hospital than in any other Canadian hospital. Last year's report shows that over three thousand medical and surgical cases were treated in the wards, and the great proportion of these were acute cases as may be gathered from the fact that the average duration of residence was only 20.58 days. There are upward of fifty thousand consultations annually in the out-door department of the Hospital.

### The Royal Victoria Hospital.

This Hospital is situated a short distance above the University Grounds on the side of the Mountain, and overlooks the city. It was founded in July, 1887, by the munificence of Lord Mount Stephen and Lord Strathcona, who gave one million dollars for this purpose.

The buildings, which were opened for the reception of patients on the first of January, 1894, were designed by Mr. Saxon Snell of London, England, to accommodate between 250 and 300 patients.

The Hospital is composed of five main buildings, connected together by stone bridges; an administration block in the centre and a wing on the east side for medical patients, in immediate connection with which is the pathological wing and mortuary, and a wing on the west side for surgical patients with nurses' home attached.

The administration block contains ample accommodation for the resident medical staff and domestics. In this building there are about twenty private wards, the X-ray and hydro therapeutic departments as well as the diet kitchen. To the north of the administration block has been erected a large out-patients' department, in which are special departments for minor surgery, ophthalmology, oto-laryngology, gynæcology, orthopædics and dermatology, neurology and pediatrics. The patient's entrance, the dispensary and admission rooms are also situated in this building. This wing was opened for patients during the winter of 1899-1900.

The medical wing contains three large wards, each 123 feet long by 26 feet 6 inches wide, one ward 40 feet by 60 feet for typhoid fever patients, one ward 40 feet by 26 feet 6 inches, 4 private and isolation wards averaging 16 feet by 12 feet, and wards for oto-laryngology and ophthalmology. There is also a medical theatre with a seating capacity of 250, and three rooms adjacent to it for clinical chemistry and other purposes. North of this wing and in direct connection with it are the pathological laboratories and mortuary.

In this wing are situated the mortuary proper, the chapel, a post mortem room capable of accommodating 200 students, and laboratories for the microscopic and bacteriological study of morbid tissues, some designed for the use of students and others for post graduation courses and special research. Special laboratories for pathological chemistry, experimental pathology, bacteriology and photography are also provided.

The Surgical wing contains three large wards, each 123 feet long by 26 feet 6 inches wide, two of which are used by the surgical department and one by the gynæcological department, two wards each 40 feet by 32 feet, and twenty-six private wards, averaging 16 feet by 12 feet; also two surgical

theatres with a seating capacity for 250, with six rooms adjacent for preparation of patients.

There is also an isolation pavilion for infectious diseases to the rear of the administration building.

**The Montreal Maternity.**

The Faculty has great pleasure in announcing that the Corporation of the Montreal Maternity has erected a large new building fitted with the most modern appliances, situated at the corner of Prince Arthur and St. Urbain streets. Students will therefore have greatly increased facilities for obtaining a practical knowledge of obstetrics and diseases of infancy. An improved Tarnier-Budin phantom is provided for the use of the students, and every facility afforded for acquiring a practical knowledge of the various obstetric manipulations. The Institution is under the direct supervision of the Professor of Obstetrics, who devotes much time and attention to individual instruction. Students who have attended the course in obstetrics during the winter and spring terms of the Fourth Year will be furnished with cases in rotation, which they will be required to report and attend till convalescent.

An Externe service in connection with the Maternity has been established, one of the resident assistants and a nurse being sent out to attend deserving cases in their own homes. Students who have had six cases in the hospital and who notify the Medical Superintendent of their desire to do externe work are assigned to these cases in rotation, accompanying the resident officers whenever possible and conducting the case under his supervision.

Clinical obstetrics has been placed upon the same basis as clinical medicine and surgery, and a final clinical examination has been instituted. Every student must give in two complete clinical reports of cases observed by himself before presenting himself for the final clinical examination. Marks are given for these reports in the final examination for degree. Regular courses of clinical lectures are given throughout the session, special attention being paid to the important subject

of infant feeding. The Walker-Gordon process of modifying milk is explained and demonstrated. At the regular Saturday clinic the work of the past week is reviewed, and an opportunity is given for the examination of patients and the discussion of points of interest in diagnosis and treatment.

During the autumn and winter terms the assistants in the department give a palpation course, clinical demonstrations in the wards and instruction in operative work on the phantom. Students will find it very much to their advantage to pay special attention to their clinical work during the summer preceding their fourth year.

Two resident medical officers are appointed yearly to assist the medical superintendent and work under his direction.

### Alexandra Hospital.

The Alexandra Hospital for the treatment of contagious diseases is available for purposes of clinical instruction. This hospital, situated on Charron Street, Point St. Charles, has a capacity of over 130 beds. There are three large individual pavilions, an observation pavilion, an isolation ward, a central kitchen and an independent administration building which contains a very complete laboratory and a dispensary. It is the intention of the Governors of the Hospital to erect a fourth pavilion for the treatment of erysipelas. For the present the three most prevalent contagious diseases, measles, diphtheria, and scarlatina, are treated, and ample provision has been made for the accommodation and instruction of students. Bedside clinics to groups of students of the fourth and fifth years are given throughout the session.

## MUSEUMS.

**The Faculty has during recent years devoted special attention to the development of its museums in the several departments in which objective teaching is of especial value in the education of the student.**

Through the benefaction of Lord Strathcona, a splendid new museum has just been erected, which is undoubtedly the finest

structure of its kind in America. The museum projects from the northwestern side of the new medical building, of which it forms a central feature, and faces the Royal Victoria Hospital. It is in the form of a rectangular cross and is in three stories, of which the upper contains the anatomical collections, while the two lower floors are devoted to the museum of pathology. The wings and free ends of the cross give space for three large alcoves on each floor, which are flooded with light from without and from a central light well. The interior is finished in white marble and stucco and the different stories communicate with each other by circular staircases. This beautiful interior has been fitly equipped by the University with handsome steel and plate glass cases, of dust-free construction, made after special designs by the Edwards Company of Syracuse, N.Y. and the Snead Manufacturing Company of Jersey City, N.J. In these cases the specimens are preserved and classified and here they may be freely studied.

**Pathological Section.**

PROF. J. G. ADAMI, DIRECTOR.
MAUDE E. ABBOTT, B.A., M.D., CURATOR.
JOSEPH KAUFMANN, M.D., ASSISTANT CURATOR.
E. L. JUDAH, OSTEOLOGIST AND PRAEPARATOR.

Since the organization of the Medical Faculty the pathological museum has been one of its most cherished objects. Some specimens still remain upon its shelves donated by the founders of the College (notably a unique case of Cor. Biatriatum Triloculare, reported by Dr. Andrew Holmes in 1823), and for the last fifty years the rich pathological material furnished by the Montreal General Hospital has been collected here. An abundance of material is also now received yearly from the Royal Victoria Hospital, and the Faculty is indebted to many medical men throughout Canada and the United States for important contributions.

The recent fire did severe damage to the museum and its contents, but, fortunately, through the efforts of the curator and staff and the active assistance of a large body of students,

much that is of great value was saved. The severest loss was that of the "bone room" and its contents—many hundreds of specimens. These were wholly destroyed and with them the results of close upon twenty years of work by the late M. Bailey, osteologist. Many of the specimens, admirably mounted, are practically irreplaceable. Extensive syphilitic lesions of the various bones are rare now-a-days compared with the middle of last century, while the settlement of the country and improved surgery make severe malpositions after fracture also relatively rare. With the bone collection there was also completely lost the valuable collection of calculi and concrements of various orders, brought together in the first place by the late Professor Fenwick, and mounted and greatly augmented during the last fifteen years. The gynæcological collection, which had just been rearranged and catalogued by Dr. W. W. Chipman, has also perished, while the collection of morbid anatomical specimens from the domestic animals recently donated by Dr. Duncan McEachran has been seriously damaged. Beyond this the specimens have largely been saved —the singularly rich collection of disturbances of the heart and vascular system, including Dr. Osler's series of cases of acute endocarditis, is almost intact, as are the collection of diseases of the respiratory, urinary, nervous and male genital systems, and of the spleen and ductless glands.

To restore this loss generous gifts have already been received from several sources, of which first and foremost must be mentioned a collection of more than 2,000 specimens, illustrating the different forms of injury and repair of the main bones by gun-shot wounds, from the Surgeon-General of the United States and the Army Medical Museum at Washington. Other comparative, osteological and morbid anatomical specimens from the same source—an equal amount and of almost equal value. The museum is also indebted to Prof. J. Orth, of Berlin, for some valuable duplicates of specimens from the great Virchow museum in Berlin, as again to various museums connected with the great London hospitals, among which St. Bartholomew's deserves particular mention. With these and

other gifts promised the museum, this department has been rapidly restored, not merely for teaching purposes, but to its position as the most important pathological museum on this continent.

The Museum staff has been actively engaged during the last four years in repairing these losses, and with these gifts, with the rich material also supplied by the Montreal hospitals, and with the newer and improved methods of preparing and mounting pathological material, the museum at the present moment not only possesses a larger number of specimens than before the fire, but in addition this material is better mounted and more serviceable for teaching purposes.

## CURATOR'S REPORT.

In addition to the acknowledgment made in last year's calendar for donations received, the Faculty wishes to express the warmest thanks to the following institutions and individual donors for their contributions to the Medical Museum during the year ending March 1st, 1911. A more detailed acknowledgment is made in the Curator's Report published triennially in pamphlet form:

### Institutions Abroad.

The University of Christiania, Norway, through Prof. Francis Harbitz.

The University of Geneva, Switzerland, through Prof. Askanazy.

The Anatomical Department of Trinity College, Dublin, through Prof. Dixon.

The College of Physicians and Surgeons, New York, through Prof. W. G. MacCallum.

The Federal Plague Laboratory, San Francisco, California, through Dr. McCoy.

The London School of Tropical Medicine, through Dr. H. B. Newham.

The Museums, Cambridge, England, through Dr. Lewis Corbett.

### Institutions in Montreal.

The Alexandra Hospital for Infectious Diseases.
The Dissecting Room of McGill University.
The Hotel Dieu de Ville Marie Hospital.
The Montreal General Hospital.
The Montreal Maternity Hospital.
The Protestant Hospital for Insane, Verdun.
The Royal Victoria Hospital.
The Western General Hospital.
The West End Abbatoir.

### Individual Donors.*

Prof. J. G. Adami.
Dr. Ainley, Wadena, Sask.
Dr. A. Ross Alguire, Cornwall, Ont.
Dr. Allingham, Westfield, N.B.
Dr. Duncan Anderson.
Dr. Archibald.
Prof. Armstrong.
Prof. James Bell.
Dr. Bernstein.
Dr. Berwick.
Prof. Birkett.
Dr. Blackader.
Miss M. E. Brand.
Dr. William Burnett.
Prof. W. W. Chipman.
Dr. Howard Church.
Dr. G. S. Clark, Rickford, Vermont.
Dr. E. M. von Eberts.
Dr. Edgar.
Dr. Elder.
Dr. F. R. England.
Dr. Enright.
Dr. Freedman.
Prof. W. Gardner.
Dr. Garrow.
Dr. Goodall.
Dr. Gruner.
Dr. Hall.
Dr. Hand.
Dr. J. B. Harvie, Troy, New York.
Dr. W. W. Lynch, Sherbrooke, Que.
Dr. MacCordick.
Dr. J. D. McLean, Greenwood, B.C.
Dr. Macphail.
Dr. MacTaggart.
Dr. C. F. Magee, Carp, Ont.
Prof. C. F. Martin.
Dr. McCrae.
Dr. A. McIntosh, Vankleek Hill, Ont.
Dr. McKenty.
Dr. G. H. Mathewson.
Dr. S. C. W. Morris, Wallace, N.S.
Dr. William Morrow.
Dr. H. S. Muckleston.
Dr. E. J. Mullaly.
Dr. Nicholls.
Dr. Ortenberg.
Dr. Pennoyer.
Dr. Porteous.
Dr. H. L. Reddy.
Dr. James Roberts, Hamilton, Ont.
Dr. R. Robertson.
Dr. G. D. Robins.
Dr. J. L. Robinson, Texas.
Dr. J. J. Ross.
Dr. C. K. Russell.
Dr. E. R. Secord, Brantford, Ont.
Dr. Shaw.

---

*Where no address is given these donors reside in Montreal.

**Individual Donors*.—Continued.**

Dr. Henderson.
Dr. George Hume, Sherbrooke.
Dr. Hutchison.
Dr. Jamieson.
Dr. F. B. Jones.
Dr. Kaufmann.
Dr. Keenan.
Prof. O. Klotz.
Dr. Murray Leys.
Dr. Lightstone.
Dr. Little.
Dr. Lockhart.
Dr. Lomer.
Dr. G. F. Shaw, St. Andrews East, Que.
Prof. F. J. Shepherd.
Dr. D. R. Shewan, Trail, B.C.
Prof. Simpson.
Dr. Lapthorn Smith.
Dr. Grant Stewart.
Dr. Henry Stockwell.
Prof. J. L. Todd.
Dr. Tooke.
Dr. Viner.
Dr. Watters, Boston, Mass.
Dr. E. H. White.
Dr. S. B. Wolbach.

* Where no address is given these donors reside in Montreal.

**Museum of Anatomy.**

DIRECTOR:—PROFESSOR F. J. SHEPHERD.
E. L. JUDAH, OSTEOLOGIST AND ARTICULATOR.

The late disastrous fire completely destroyed the Museum of Anatomy, but steps have been taken to replace the teaching material, and already the department is well supplied. Many specimens have been received from the Army and Navy Museum of Washington, D.C., and from other institutions. Numbers of models and bone preparations have been received from France and Germany, and during the session models of Viscera and Brain and also many dissections and cross sections have been added. Last year a fine set of moist brain preparations prepared by Professor McCarthy has been added to the museum, also a set of bones showing epiphyses at various ages, and models of perineum, neck, abdomen and lungs, obtained from Steger and others; some fine Anthropoid and other typical skeletons have been purchased; also models of various primitive skulls. Many new cross sections of abdomen and chest have been prepared by Prof. McCarthy. Dr. Hamilton White has prepared beautiful preparations of the various sinuses connected with the nasal passages and also of the labyrinth of the ear. In a year or two it is hoped that the department will have as good a teaching museum as formerly.

## Museum of Hygiene.

DIRECTOR:—PROF. T. A. STARKEY.

This museum has been established from the interest accruing through the endowment of the Chair of Hygiene by Lord Strathcona and Mount Royal in 1893.

The material in the museum has been rearranged with a view to exhibiting not only specimens of the best and most approved types of appliances in each particular branch of public health, but also examples of types which are to be avoided on hygienic principles. In order to facilitate study and reference, the specimens have been classified upon a decimal system under the following sections:—

1. *Disinfection.*—Including disinfecting apparatus, disinfectants and antiseptics.

2. *Lighting and Heating.*—Showing contrivances used for these purposes.

3. *Water.*—Showing underground water and supplies drawn from it; methods of purification on large and small scales, including domestic filtration; exhibits of all the common modes of pollution of water supplies.

4. *Buildings.*—Effects of ground moisture on dwellings; building of all kinds, and measures to be taken against dampness and foul air.

5. *Soil.*—Various kinds of soils, relation between soil and dampness, permeability of soils to gas and water, composition of soils.

6. *Air.* — Including ventilation, climate and meteorology, with apparatus illustrative of each class.

7. *Drainage and Refuse Disposal.* — This section includes every description of sanitary appliance used in building, drainage, and ultimate disposal of refuse, both liquid and solid. The section also includes types of faulty methods.

8. *Foodstuffs.*—Adulterations and modes of transmission of disease.

9. *Clothing.*—Materials and their value for clothing.

10. *Vital Statistics.*—Administration, etc.

11. *Bacteriology and Pathology relating to Public Health.*—Including specimens and slides of all the common micro-organisms, pathogenic and non pathogenic, specimens of pathological conditions met in meats, etc.

In addition to the regular Museum Exhibit there is a collection of over 100 lantern slides illustrative of phases of hygiene. The slides have been so arranged as to be available for demonstrations as hand specimens. These slides as well as all the specimens in the museum are card catalogued, and a projecting lantern is available for their demonstration.

The following are some of the principal exhibits:—Set of Knight's diagrams and models; working models illustrating house drainage, closets, etc., sewer air, movements of soil air: Doulton's models of drainage, damp proof construction, absorption of moisture in building materials, ventilation appliance, combined heating and ventilation, automatic regulation of heating and ventilation; building materials; fire proofing; estimation of carbonic acid and moisture in the air; meteorological observation; water supply, water piping; water filtrations of public and domestic supplies; pollution of water supplies; ground water level; sewage and refuse disposal; food supply; food adulteration; examination of milk supplies; disinfection, disinfectants.

The Director desires to acknowledge the following generous donations:—

*From Messrs. Mather and Platt, Manchester, England.*—Large working model of the continuous process for sewage contact beds.

*From the Standard Manuf. Co., Pittsburg, Penn.*—Enamelled bath, shop sink, lavatory sink and syphonic closet with flushometer.

*From the Horsfall Destructor Co., Leeds, England.*—Model of high temp. destructor for house refuse.

*From the Sanitary Institute, London, England.*—Specimen of old fashioned pan closet.

*From Mr. Rich. Ravener, Berks, England.*—New kind of drain testing machine.

*From Moule's Earth Closet Co., Covent Garden, London.*—Specimen of earth closet complete.

*From Messrs. Geo. Jennings and Co., Lambeth, London.*—Specimen of syphonic closet, with all attachments.

*From the Berkefeld Filter Co., Oxford St., London.*—Specimens of various kinds of biological filters:—(1) Traveller's filter; (2) House filter for permanent attachment; (3) House filter with detachable joint; (4) Pressure filter with force pump suitable for country residences where wells are the only available source of water supply; (5) Table filter.

*From Messrs. Freeman and Hines, Westminster, London.*—Specimens of new eccentric joint for drain pipes.

*From Messrs. Robert Boyle and Sons, Holborn Viaduct, London.*—Models of ventilating cowls and large chart of ventilation schemes, specimen of trap.

*Dr. G. P. Girdwood.*—Sample of defective water pipe.

*Dr. Ruttan.*—Specimen of brick from ancient Roman villa.

*Mr. C. J. Hughes.*—Specimen of old wooden water pipes found in Montreal.

*T. Turner & Sons, Peterboro, Ont.*—Model of tuberculosis tent.

## Library.

LIBRARIAN:—PROF. F. G. FINLEY.
ASSISTANT LIBRARIAN:—MISS M. R. CHARLTON.

"The history of the Library is the history of the Faculty."
Professor Hall.

During July, 1910, the work of moving and arranging the Medical Library in the new quarters was completed, the Library being open to readers during the whole time of removal.

The library occupies the central part of the new building, the whole of the front of the third and of the second floors, as well as a portion of the first floor being used. On the third floor is the magnificent reading room 76 x 24 feet, exceptionally well lighted and capable of accommodating 100 readers. On this floor also is the staff journal room and the private office of the Librarian.

The second floor contains the stack room. This stack is equipped with book stacks having a total capacity of sixty thousand volumes. The contract for the book stacks and shelving of the medical library was given to the Snead Company, of Jersey City. Mr. B. Shaw, who had charge of the construction of the Library of Congress in Washington, was the one who originally designed these splendid modern stacks which are now being used in all the best libraries.

Since the transfer of the medical library to its new home many valuable additions to the library have been made. The collection, which is one of the finest to be found in any medical school on the Continent, has been recently enriched by the addition of over one thousand volumes of rare and valuable works on Ophthalmology. These books are the gift of Dr. Casey Wood, of Chicago, an old Montrealer, who for years has occupied a leading position among the ophthalmologists of America. The books now presented to McGill represent practically everything of value that has been written on ophthalmology up to the year 1850. They constitute what Dr. Wood designates as the first half of his library, and it is his intention to donate later the second portion, which is equally valuable. On the completion of Dr. Wood's gift the medical library will possess a department of ophthalmology which will be unsurpassed.

The "Osler" collection continues to be greatly enriched by valuable gifts throughout the year by Dr. William Osler. This year Dr. Osler and Sir Lauder Brunton have sent a series of magnificent engravings for the new home of the library.

Prof. Blackader has presented a complete set of the "Monatschrift fur Kinderheilkunde."

The library is indebted for large gifts of unbound pamphlets and periodicals to the following: Professor Birkett, Professor Blackader, Professor Cameron, Professor Gardner, Professor Shepherd.

A complete list of donors is published in the Yearly Report of the Library.

**Extracts from the Library Regulations.**

I. During the college session the library is open daily (except Sundays and general public holidays) from 9 a.m. till 6 p.m., and from 7.30 to 10.30 every evening. During vacation from 9 a.m. to 5 p.m.

II. The stack room is not open to students or to the public

III. The books in the library are classed in two divisions: 1st, those which may be taken from the library; 2nd, those which may not, under any circumstances, be removed from the library. The latter class includes all catalogues, dictionaries, encyclopedias and current journals.

IV. Students will be allowed to use regular text-books only in the library. Any other book may be taken out at 5.30 p.m. to be returned the next day. If books so removed from the Library are not returned punctually, a fine will be imposed, and if the delay be serious the student may be suspended from the use of the library at the discretion of the Librarian.

V. Students may take out books, subject to the above regulations, to the number of three volumes at one time.

VI. Books may be taken from the library only after they have been especially asked for and charged at the delivery desk; borrowers who cannot attend personally must sign and date an order, giving the titles of the books desired and the name of the person deputed to procure the same.

VII. Damage to or loss of books shall be made good to the satisfaction of the Librarian and of the Library Committee. Writing or making any mark upon any book belonging to the library is unconditionally forbidden. Any persons found guilty of wilfully damaging any book in any way shall be excluded from the library, and shall be debarred from the use thereof for such time as the Library Committee may determine.

VIII. Damage, or injury where the responsibility cannot be traced must be made good out of the caution money deposited by students with the Bursar.

IX. Silence must be strictly observed in the Library.

X. Infringement of any of the rules of the Library will subject the offender to a fine or suspension of the privileges, or to such other penalty as the nature of the case may require.

Statistics from October, 1910, to June, 1911.

| | |
|---|---|
| Number of books added by gifts ..... | 2,600 |
| Number of pamphlets added ..... | 1,500 |
| Number of readers for the session ..... | 2,500 |

## McGILL MEDICAL SOCIETY.

This Society, composed of registered students of the Faculty, meets every alternate Friday during the autumn and winter terms, for the reading of papers, case reports and discussions on medical subjects. A prize competition has been established in Senior and Junior subjects, the Senior being open to all to write upon, while only the 1st, 2nd and 3rd year students are allowed to compete in the Junior subjects. The papers are examined by a board selected by the Faculty, and a first and second prize in each division of subjects is awarded to the successful candidates.

Names of competitors and titles of papers must be sent to the Chairman of the Programme Committee before September 1st and all papers are subject to the call of the committee on October 1st. All papers must be handed in for examination on or before January 10th.

The Medical Society also controls the students' reading room in which the leading English and American Medical Journals are on file, as well as the leading daily and weekly newspapers of the Dominion.

The annual meeting is held during the first week of the Spring Term, when the following officers are elected: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter, and three Councilmen (of whom two shall be elected from the Faculty).

A membership fee of one dollar is collected from all students. This fee may be paid at the office of the bursar with the regular sessional fees.

**Hospital Appointments.**

The Resident Medical and Surgical Staff of the Montreal General, the Royal Victoria, and the Maternity Hospitals, is selected by examination from the members of the graduating class of each year. There are from 15 to 20 such appointments made annually which are tenable for from one to three years, while a number of them carry a small salary with them. The following appointments have been made for the coming year:—

ROYAL VICTORIA HOSPITAL:—

ADMITTING OFFICER.

Dr. F. A. Benner.

*House Physicians.*

Dr. J. E. Park, Dr. W. O. Gliddon,
Dr. A. D. Campbell, Dr. R. B. Malcolm.

*House Surgeons.*

Dr. A. Stewart, Dr. Louis A. Roy,
Dr. J. B. Gallagher, Dr. Samuel S. Streight,
Dr. J. L. Mavety, Dr. A. Kay.

*House Ophthalmologist.*

Dr. H. G. Smith.

*House Oto-Laryngologist.*

Dr. H. Ballon.

*House Gynaecologist.*

Dr. L. C. Conn.

*House Pathologist.*

Dr. J. R. Fraser.

*Locum Tenens in Medicine.*

Dr. M. C. Roberts.

*Locum Tenens in Surgery.*

Dr. J. J. Gillis, Dr. Wesley Bourne.

MONTREAL GENERAL HOSPITAL:—

*House Physicians and Surgeons.*

Dr. T. A. Robinson,
Dr. H. H. Hepburn,
Dr. E. H. Falconer.
Dr. W. A. G. Bauld,
Dr. G. G. Copeland,
Dr. MacNeill,
Dr. R. O'Callaghan,
Dr. J. J. Ower,
Dr. H. R. Clouston,
Dr. A. W. Furness,
Dr. Stanbury,
Dr. W. T. Hepburn,
Dr. W. A. MacNaughton,
Dr. R. H. McGibbon,
Dr. W. L. Shannon,
Dr. More.

*Locum Tenens.*

Dr. W. Taylor,
Dr. H. B. Havey.

MONTREAL MATERNITY HOSPITAL:—

*House Physicians.*

Dr. J. D. Stewart,
Dr. J. J. Irven.

ALEXANDRA HOSPITAL:—

*House Physicians.*

Dr. Murray Leys,
Dr. W. J. Kaine.

# DENTAL DEPARTMENT

OF THE

## MEDICAL FACULTY

OF

# McGill University

---

## EIGHTH SESSION

1911-1912

## GENERAL ANNOUNCEMENT.

In the Autumn of 1903 the Dental Association of the Province of Quebec approached the University, asking that a dental department be instituted in connection with the Medical Faculty, and as a result of negotiations continuing through the session of 1903-04, the University has established such a department. This department is not independent, but is a section of the Medical Faculty.

Under the regulations that have been established governing the Dental Department, students may register in Dentistry after passing the matriculation required of students of Medicine in McGill University, but those wishing to practice in the Province of Quebec, except those who hold a degree in Arts from a recognized British or Canadian University, must pass the matriculation examination of the College of Dental Surgeons of the Province of Quebec.

The course demanded of students in this department extends over four years and leads up to the degree of D.D.S. In the first year the curriculum is that demanded of students in the Medical Faculty for the same period. In the second year students of Dentistry will finish their course in anatomy at Christmas, the course in chemistry will not be so extensive as for the medical student, and special lectures will be given in physiology, pharmacology and histology. Pharmacy as in the medical course. There will be also courses in operative dental technique, prosthetic technique, and dental anatomy for second year students. The practical work of the last two years will be conducted at the Dental College, special courses of lectures being delivered at the McGill Medical College.

### CLINICAL INSTRUCTION.

The establishment of an out-patient clinic in dentistry by the authorities of the Montreal General Hospital has enabled the University to offer its students an abundance of clinical

material. During the third and fourth years the greater part of the student's time is spent in the clinic where he receives the personal attention of a competent staff of instructors.

### Requirements for the Degree.

The degree of Doctor of Dental Surgery (D.D.S.) will be conferred by McGill University on any student who has fulfilled the following requirements:—

1. He must be of the full age of 21 years.
2. He must be of good moral character.
3. He must have passed all required examinations.
4. He must have completed the full term of four years.
5. He must have paid all fees.

### Summary of Fees.

The summary of fees for the course, payable to the Bursar of the University, is as follows:—

*First Year.*

| | |
|---|---|
| Class fees | $125.00 |
| Caution money (deposit) | 10.00 |
| Athletics | 3.00 |
| | $138.00 |

*Second Year.*

| | |
|---|---|
| Class fees | $125.00 |
| Caution money (deposit) | 10.00 |
| Athletics | 3.00 |
| | $138.00 |

*Third Year.*

| | |
|---|---|
| Class fees | $125.00 |
| Caution money (deposit) | 10.00 |
| Athletics | 3.00 |
| | $138.00 |

*Fourth Year.*

| | |
|---|---|
| Class fees | $125.00 |
| Caution money (deposit) | 10.00 |
| Athletics | 3.00 |
| Graduation fee | 30.00 |
| | $168.00 |

**The regular work of the Session of 1911-12 begins on October 3rd, 1911.**

**For full particulars of the Dental Department, consult the special catalogue of the Department, a copy of which will be sent on application to Dr. J. W. Scane, Registrar Medical Faculty.**

# CLASS LIST.

## SEVENTY-NINTH SESSION 1910-1911.

The total number of students enregistered in the Medical Faculty during the past Session was 316, of whom 19 were dental students, and 16 were graduates attending post-graduate and special courses.

| | | |
|---|---|---|
| First Year | | 58 |
| Second Year | | 77 |
| Third Year | | 75 |
| Fourth Year (Four Year Course) | | 35 |
| Fourth Year | | 36 |
| | | 281 |
| DENTALS:— | | |
| First Year | 8 | |
| Second Year | 4 | |
| Third Year | 4 | |
| Fourth Year | 3 | |
| | | 19 |
| Graduates in attendance | | 16 |
| Total | | 316 |

Of whom there were from:—

| | | | |
|---|---|---|---|
| Quebec | 74 | West Indies | 20 |
| Ontario | 66 | Manitoba | 4 |
| New Brunswick | 20 | British Columbia | 37 |
| Nova Scotia and Cape Breton | 16 | Yukon | 1 |
| United States | 40 | S. Africa | 1 |
| Newfoundland | 9 | Alberta and Saskatchewan | 9 |
| Prince Edward Island | 15 | British Guiana | 4 |
| | | Total | 316 |

### FIRST YEAR.

Anderson, G. C., Central Square, New York.
‡Angelus, Alfred, 91 Benoit St., Montreal.
Arnott, C. A., Nelson, B.C.
Audette, G. A., B.A., 161 Daly Ave., Ottawa, Ont.
Bâby, G. R., 475 Main St. East, Hamilton, Ont.
‡Bayne, A. R., Palm Cottage, Roebuck St., Bridgetown, Barbados.
‡Bélanger, P., 49 Daly St., Ottawa, Ont.
‡Brown, W. P., 718 Dorchester St. W., Montreal.

‡Conditional.

Browne, W. A. S., 194 Orange St., Kingston, Jamaica, W.I.
Chapin, C. E., Philadelphia, N.Y.
Charters, G. E., Westminster Jct., B.C.
†Coates, A. H., 424 McKay St., Montreal.
Conroy, H. J., 33 Hunter St., Peterborough, Ont.
Croft, T. A., Y. M. C. A., Vancouver, B.C.
Cunnane, F. J., Meriden, Conn.
†Demuth, Otto, Grand Forks, B.C.
**Donnelly, J. M., 121 King St. E., St. John, N.B.
Dwyer, T. R., Holyrood, Conception Bay, Nfld.
*Eberts, H. F. H., 1114 Langly St., Victoria, B.C.
Evans, G. G., Whyte Ave., Vancouver, B.C.
Farley, O. E., 391 Stevens St., Lowell, Mass.
Griffith, G. T., B.A., Sherbrooke, Que.
Guiou, Norman M., 21 Regent St., Ottawa, Ont.
Hodge, G. E., Cornwall, Ont.
Hyndman, A. B., Merrickville, Ont.
Kean, C. D., 25 Prescott St., St. John's, Nfld.
Knoll, J. J., Daysland, Alta.
Laing, G. F., 75 Victoria Ave., Windsor, Ont.
‡Leeson, L. H., Vancouver, B.C.
Legris, L. J. A., Louiseville, Que.
MacNaughton, B. F., Salisbury, N.B.
McBride, C. D., Arnprior, Ont.
‡McClelland, A. W., Cantley, Que.
**McKay, Charles, Stoughton, Sask.
†Malone, J. M. F., Three Rivers, Que.
Martin, A. J., Montreal.
Martin, J. H., 22 Gordon Ave., Berlin, Ont.
‡Massiah, H. G., Spring Hall, St. Lucy, Barbados., W.I.
Mingie, W. J. E., 21 Maple Ave., Point St. Charles.
Neilson, H. K., Arnprior, Ont.
‡Redman, R. C., Auburndale, Hastings, Barbados, W.I.
‡Roberts, G. W., 68 Wildwood Ave., Ottawa.
Scott, W. E., 45 Prospect St., Westmount.
Seme, P. L., Lindley, M. Station, Natal, S. Africa.
Smith, Emerson, Chesterville, Ont.
Steeves, R. E., Hillsboro, Albert Co., N.B.
Stevenson, F. W., 73 Spring St., St. John, N.B.
Tanney, A. M. J., Iroquois, Ont.
Templeman, Wm., 49 Duckworth St., St. John's, Nfld.
*Turner, W. H., 237 Laurier W., Ottawa, Ont.
Urquhart, J. A., Revelstoke, B.C.
Walcott, F. S., The Pine, St. Michael, Barbados, W.I.
Walsh, C. O., Canso, Nova Scotia.
Wert, H. C., Avonmore, Ont.
West, J. H., Moncton, N.B.
White, F. H., B.A., Amherst, N.S.
*Wilkes, A. B., Brantford, Ont.
Woodward, Wilfrid, 1587 Fairfield Rd., Victoria, B.C.

---

‡ Conditional. * Double Course. ** Repeating. † Partial.

SECOND YEAR.

Argue, A. F., Carp, Ont.
Atkinson, W. S., Mansfield, Ohio.
Barclay, D. J., New Westminster, B.C.
Bayne, H. D., Lower Estate, St. Michael, Barbados.
‡Benning, C. H. P. G., Montreal, Que.
Brown, W. A., Moncton, N.B.
‡Cleveland, D. E. H., Cleveland, Ohio.
Convery, E. B., Montreal W. Que.
Couillard, A., B.A., Ottawa, Ont.
Coy, F. E., Vancouver, B.C.
Dalpé, W. G., Montreal, Que.
Daw, W. F., Bay Roberts, Nfld.
Denny, J. P., Georgetown, British Guiana.
Dover, Harry, Aylwin, Que.
**Downing, G. F., Rougemont, Que.
Fillmore, M. J., Advocate Harbour, N.S.
Fisher, A. M., Woodstock, N.B.
Fitzpatrick, E. J., Meriden, Conn.
Fleet, G. A., Montreal, Que.
Gallagher, J. F., Bangor, Me.
Gardiner, E., London, Ont.
Grant, W. J., A.B., Georgetown, P.E.I.
Hartin, David, Nelson, B.C.
Hirshberg, I. B., Bay City, Mich.
Hutson, L. C., Wakefield, White Park, Barbados.
Illievitz, A. B., Montreal, Que.
Jewett, M. L., Central Keswick Ridge, N.B.
Johnston, C. D., St. Elizabeth, Jamaica.
Jones, T. A., M.D., Georgetown, B. Guiana.
Joyce, C. R., Woodstock, Ont.
**Kennedy, G. L. D., Ottawa, Ont.
King, A. E., Waltham, Mass.
Lee, J. C., Quebec, Que.
Lennie, T. H., New Westminster, B.C.
Letvinoff, Paul, Vancouver, B.C.
Luby, Thomas, Meriden, Conn.
Lundon, A. E., Canterbury, N.B.
Lundon, C. T., Canterbury, N.B.
Lyons, G. A., Moncton, N.B.
MacIntosh, A. F., Dundela, Ont.
Mackenzie, H. H., New Westminster, B.C.
McCarroll, F. L., Arthur, Ont.
Mann, A. H., Stittsville, Ont.
Mason, E. H., Providence, R.I.
Mendel, David L., Montreal, Que.
Mewburn, F. H. H., Lethbridge, Alta.
Miller, R. S., M.D., Demerara, B. Guiana.
Moore, W. A., Kaslo, B.C.
Morris, E. M., Fall River, Mass.
Morrison, D. A., Maxville, Ont.
Murphy, E. V., Fall River, Mass
Mustard, H. R., Victoria, B.C.

‡Conditional. **Repeating.

Phelps, F. L., Westmount, Que.
Pollock, J. M., Berwick, Ont.
Powles, Clarence, Montreal, Que.
Rankin, R. D., Stratford, Ont.
Reid, D. A., Providence, R.I.
Robbins, C. D., Yarmouth. N.S.
Roberts, L. H., Ottawa East, Ont.
Ross, A., Blue Mountains, N.S.
Ruddick, W. W., St. John, N.B.
Ryan, E. J., Fairfield, Me.
Sahler, S. LeR., Kingston, N.Y.
Salo, M. A., Vancouver, B.C.
**Scott, W. C. M., Ottawa, Ont.
Sharp, A. D., Summerside, P.E.I.
Smith, J. M., Kinkora, P.E.I.
Smith, Lee, Vancouver, B.C.
Smyth, P. P., Toronto, Ont.
Sproul, M. I., Martintown, Ont.
Taylor, W. F., Charlottetown, P.E.I.
Tidmarsh, F. W., Charlottetown, P.E.I.
Waterston, D., B.A., Westmount, Que.
Wickham, J. C., B.A., St. Lambert, Que.
Wiley, D. E., Andover, N.B.
Windeler, E. C. H., Hazel Hill, N.S.
Wright, H. P., B.A., Ottawa, Ont.

THIRD YEAR.

Astrofsky, Samuel, Montreal, Que.
Atkinson, J. H., Mansfield, Ohio
Baird, F. S., Bay City, Mich.
Beaton, Malcolm, Caledonia, P.E.I.
Beaudry, J. H., Bridgeport, Conn.
Bilodeau, J. P., New Westminster, B.C.
*Briggs, T. A., Victoria, B.C.
*Brown, Sam'l, Hallville, Ont.
Brown, Norman, New Westminster, B.C.
Bruneau, I. E., B.A., Cornwall, Ont.
Burrows, G. C., Guelph, Ont.
Busteed, D. F., Vancouver, B.C.
Cheney, H. H., Monticello, Me.
Clark, L. E., Vancouver, B.C.
Crowdy, C. T., St. John's, Nfld.
Cumming, H. E., Russell, Ont.
Cumming, John, Winnipeg, Man.
DeGarmo, P. W., Kingston, N.Y.
Delahey, A. L., Pembroke, Ont.
*Digby, R. W., Brantford, Ont.
*Douglas, H. T., Montreal, Que.
Dixon, H. C., Maple Creek, Sask.
Forbes, C. A., Bonavista, Nfld.
*Foster, A. N., Providence, R.I.
Geldert, G. M., Windsor, N.S.
Gillis, R. A., Summerside, P.E.I.

* Double Course. ** Repeating.

Gowdey, W. C., St. Michaels, Barbados, B.W.I.
Grant, J. F., Victoria, B.C.
Grundy, G. M., Long Beach, Cal.
Henderson, A. T., Brown's Town, Jamaica, W.I.
*Hickson, C. R., St. John, N.B.
Hutton, W. A., Lachine, Que.
*Jenkins, J. S., Charlottetown, P.E.I.
Jones, B. L., Sprague, Wash.
*Kean, S. G., Brookfield, Nfld.
Kirkland, A. S., New Westminster, B.C.
*Kolber, Joseph, Montreal, Que
Krolik, M. Z., Winnipeg, Man.
Lennox, T. H., Yorkton, Sask.
Levine, E. C., Montreal Annex, Que.
MacDermot, H. E., Ropley, Golden Town, Jamaica, W.I.
Mackay, A. A., Montreal, Que.
MacLeod, D. A., Ottawa, Ont.
McIntyre, G. D., Avonmore, Ont.
McLean, W. J., Perth, Ont.
Malloch, T. A., B.A , Hamilton, Ont.
Malone, R. H., St. John's, Antigua, B.W.I.
Meeker, J. E., Moira, N.Y.
Melhado, G. C., Old Harbor, Jamaica B.W.I.
*Miller, R. S., M.D., Demerara, British Guiana.
Morris, W. G., Regina, Sask.
*Mulloy, P. G., Toronto, Ont.
Munroe, Finlay, Maxville, Ont.
Munroe, J. G., Woodstock, Ont.
Nase, Philip. St. John, N.B.
O'Donnell, J. E., Fort William, Ont.
Parker, F. D., Wolfville, N.S.
Pelletier, Albert, Montreal, Que.
Perreault, W. J., Ottawa, Ont.
Phelan, G. W., Ash Point, Me.
Phillips, J G., Forest, Ont.
Purdy, W. T., Amherst, N.S.
*Ramsey, G. S., Quebec, Que.
Reeves, C. W., Atlanta, Ga.
Robertson, R. B., Vancouver, B.C.
Robinson, Geo., Route 14, Concord, N.H.
Robson, C. H., New Westminster, B.C.
Ross, S. G., Montreal, Que.
Segal, Jake, Montreal, Que.
**Smith, C. H. V., St. Paul, Que.
Smith, J. A., New Westminster, B.C.
*Thomas, M. W., Victoria, B.C.
Thompson, A. E., Coaticook, Que.
Wall, J. T., Vancouver, B.C.
Wheeler, R. de F., B.A., Montreal.
Williams, W. E., Mount Pleasant, P.E.I.

---

* Double Course. ** Repeating.

FOURTH YEAR.

Beck, S. G., Hecktown, Pa.
Bourne, C. R., Victoria, B.C.
Davies, A. P., Hull, Que.
Derby, L. L. Plantagenet, Ont.
Derome, H. R , B.A., St. Chrysostome, Que
Draper, F. E., Montreal, Que.
Ewert, Paul, A.B., Gretna, Man.
Falardeau, A., Hull, Que.
Freeze, D. F. D., Sussex, N.B.
Furlong, H. G., Norwich, Ont.
Gregory, F. L., Fairfield, Me.
Harrison, John, B.A., Georgetown, Demerara, British Guiana.
Hébert, A. J., Shawinigan Falls, Que.
Houle, L. G., Charlottetown, P.E.I.
Lewis, D. S., M. Sc., Montreal, Que.
MacDonald, D. L., B.A., Montreal, Que.
MacHaffie, L. P., Cornwall, Ont.
MacKay, F. H., Mt. Stewart, P.E.I.
Macleod, J. S., Charlottetown, P.E.I.
MacNutt, L. W., Charlottetown, P.E.I
McCreary, C. H., Morrisburg, Ont.
McKim, L. H., Wallace Bridge, N.S.
McNulty, L. T., Norwood, N.Y.
Oulton, J. R., B.A., Lorneville, N.S.
Planche, H. H., Cookshire, Que.
Robert, H. R., Au Sable Forks, N.Y.
Rosenbaum, J. J., Montreal, Que.
Scobie, T. J., Kars, Ont.
Steeves, H. C., B.A., Hillsboro, N.B.
Stewart, J. W., Hampstead, Ont.
Stone, W. R., Vancouver, B.C.
Sutherland, T. W., Saskatoon, Sask.
Swaine, F. S., B.A., N. E. Harbor, N.S.
Walcott, E. J. O'N., Christ's Church, Barbados
Walter, A. B., Salt Spring Island, B.C.
Webster, A. V., Marie, P.E.I.

FOURTH YEAR

FOUR YEAR COURSE STUDENTS.

Bancroft, A. G., Bridgetown, Barbados, B.W.I.
Bauld, W. A. G., B.A., Halifax, N.S.
Bell, Dudley, M.D., Granville, Yukon.
**Bourne, Wesley, St. Philip's, Barbados, B.W.I.
Campbell, A. D., Glencoe, Ont.
*Canegata, D. C., B.A., Christiansted. St. Croix, D.W.I.
Carnell, A. H., 16 Cochrane St., St. John's, Nfld.
Clark, T. L. E., Barbados, B.W.I.
*Clouston, H. R., B.A., Huntingdon, Que.
Crawford, J. W., Courtenay, B.C.
Dryden, T. A., Highgate, Jamaica, B.W.I.

---

* Double Course. ** Repeating.

Falconer, E. H., Prentice, Wisc.
Furness, A. W., Vernon, P.E.I.
*Geggie, H. J. G., Beauport, Que.
Gillespie, J. H., Morrisburg, Ont.
*Gliddon, W. O., B.A., 24 Regent St., Ottawa, Ont.
**Gray, E. H., B.A., B.D., Montreal West, Que.
Hamilton, C. D., Cornwall, Ont.
**Havey, H. B., B.A., Digby, Nova Scotia.
Hawkins, A. B., "The Belle," St. Michael, Barbados, B.W.I.
Irven, J. J., 1631 Mance St., Montreal Que.
**Kaine, W. J., A.B., 122 Elliot St., Brattleboro, Vt.
**Kearney, G. H., Renfrew, Ont.
Legault, J. H., 82 Church St., Ottawa, Ont.
Marcuse, O., B.A., 407 Metcalfe Ave., Westmount.
McGibbon, R. H., 616 Sherbrooke St. W., Montreal.
**McMillan, W. H., Brockville, Ont.
*Mavety, J. LeR., B.A., 580 Arlington Ave., Montreal.
Reid, C. M., M.D., Jamaica, B.W.I.
Roberts, M. C., Brigus, Nfld.
*Shannon, W. L., B.A., Vancouver, B.C.
Stewart, J. D., Calgary, Alta.
Taylor, S. W., B.A., Taylor Village, N.B.
Vigneux, M. J., Nelson, B.C.
**Wallace, I., Belleville, Ont.

## DENTAL DEPARTMENT.

### FOURTH YEAR.

Aronson, A. M., Montreal, Que.
Cunningham, R. B., M.D., Montreal, Que.
Glickman, A. B., Montreal, Que.

### THIRD YEAR.

Boyce, W. E., Rawdon, Que.
Lightstone, B., Montreal, Que.
McKenty, A. J., M.D., Winnipeg, Man.
Strang, A. McD., Quebec, Que.

### SECOND YEAR.

Gold, Maxwell, Montreal, Que.
Gross, H. S., Montreal, Que.
Solomon, A. S., Montreal, Que.
Wathen, J. McK., Harcourt, N.B.

### FIRST YEAR.

Bercovitch, Lyon, Montreal, Que.
Chartrand, H. A., Montreal, Que.
Driver, H. V., Montreal, Que.
Lipsey, R. H., Montreal, Que.
MacCallum, L. M., Charlemagne, Que.
Rothschild, Chas., Sault Ste. Marie, Ont.
Saunders, F. W., Bedford, Que.
Sutherland, W. S., Valleyfield, Que.

* Double Course. ** Repeating.

## List of Prizemen and Medallists in the Medical Faculty.

In 1855 the examinations were divided into Primary and Final, and prizes were established for the best Thesis and for the best Examination in the Primary and Final branches.

In 1865 the Holmes' Gold Medal was established in honour of Dr. Holmes, and is given for the best examination in both Primary and Final branches. For statement concerning other prizes, see p. 62.

The following is the List with the present addresses of the recipients:—

1854. For General Proficiency.—*1st Prize*—Robert Craik.*
*2nd Prize.*—Thomas Simpson.*

1855. Thesis.—James McG. Stevenson.*
*Final Examination.*—James McG. Stevenson.*
*Primary Examination.*—Walter J. Henry.*

1856. Thesis.—Walter James Henry,* and W. J. Jones, Prescott, O.
*Final Examination.*—E. Laberge.*
*Primary Examination.*—*Hon. Levi R. Church.

1857. Thesis.—*Hon. Levi R. Church, and D. T. Robertson, Lennoxville, Q.
*Final Examination.*—*Hon. Levi R. Church.
*Primary Examination.*—James Kerr.*

1858. Thesis.—Timothy F. English,* and W. F. Taylor.*
*Final Examination.*—Wm. Harkin.*
*Primary Examination.*—Wm. Harkin.*

1859. Thesis.—Edward W. Smith.*
*Final Examination.*—James J. O'Dea, Stapleton, N.Y.
*Primary Examination.*—Henry Warren.*

1860. Thesis.—J. W. Pickup.*
*Final Examination.*—Henry Warren.*
*Primary Examination.*—Joseph M. Drake,* and Fred. Sutherland.*

1861. Thesis.—Joseph M. Drake,* F. J. Austin, Sherbrooke, Q., and D. L. Philip.*
*Final Examination.*—Joseph M. Drake.*
*Final Examination.*—Thos. C. Walton.*

1862. Thesis.—R. M. Bucke.*
*Final Examination.*—John A. Stewart.*
*Primary Examination.*—John J. Marston.*

---

* Deceased.

1863. THESIS.—Wm. C. Gustin.*
*Final Examination.*—J. J. Marston.*
*Primary Examination.*—R. A. Kennedy,* and Peter A. McDougall, Ottawa, and C. F. Bullen.*

1864. THESIS.—W. W. Squire.*
*Final Examination.*—D. Howard Harrison.*
*Primary Examination.*—Kenneth Reid.*

1865. HOLMES' GOLD MEDAL.—E. P. Hurd.*
*Final Examination.*—H. L. Vercoe.*
*Primary Examination.*—George Ross,* and W. Gardner, Montreal.

1866. HOLMES' MEDALIST.—George Ross, M.A.*
*Final Examination.*—William Gardner, Montreal, Q.
*Primary Examination.*—Clinton W. Kelly, Louisville, Ky.

1867. HOLMES' MEDALIST.—Clinton W. Kelly, Louisville, Ky.
*Final Examination.*—C. W. Kelly, Louisville, Ky.
*Primary Examination.*—Wm. Henry Patterson.*

1868. HOLMES' MEDALIST.—T. G. Roddick, Montreal, Q.
*Final Examination.*—T. G. Roddick, Montreal, Q.
*Primary Examination.*—Andrew Harkness.*

1869. HOLMES' MEDALIST.—T. D. Lucas.*
*Final Examination.*—Andrew Harkness.*
*Primary Examination.*—Alexander A. Henderson.*

1870. HOLMES' MEDALIST.—A. A. Henderson.*
*Final Examination.*—O. H. E. Clarke, Utica, N.Y.
*Primary Examination.*—J. H. Mathieson, St. Mary's, O.

1871. HOLMES' MEDALIST.—J. H. Mathieson, St. Mary's, O.
*Final Examination.*— H. P. Wright.*
*Primary Examination.*—Thomas Kelly, Omaha, Neb.

1872. HOLMES' MEDALIST.—Hamilton Allan, Tacoma, Wash.
*Final Examination.*—G. A. Starke.
*Primary Examination.*—F. J. Shepherd, Montreal.
SPECIAL PRIZE FOR THESIS.—W. Osler, Oxford, Eng.

1873. HOLMES' MEDALIST.—Thomas Kelly, Omaha, Nebr.
*Final Examination.*—D. A. Alguire, Cornwall, Ont.
*Primary Examination.*—J. D. Cline, B.A.*

1874. HOLMES' MEDALIST.—J. D. Cline, B.A.*
*Final Examination.*—J. C. Cameron, Montreal.
*Primary Examination.*—S. J. Tunstall, B.A., Vancouver, B.C.

1875. HOLMES' MEDALIST.—S. J. Tunstall, B.A., Vancouver, B.C.
*Final Examination.*—J. B. Benson.*
*Primary Examination.*—C. H. Murray, B.A.,* and R. H. W. Powell, Ottawa, Ont.

1876. HOLMES' MEDALIST.—Robert H. W. Powell, Ottawa, O.
*Final Examination.*—Chas. H. Murray, B.A.*
*Primary Examination.*—Alex. C. Fraser, Manitowoc, Wis.
SPECIAL PRIZE FOR THESIS.—R. L. MacDonnell, B.A.*

1877. HOLMES' MEDALISTS.—James Bell.*
*Final Examination.*—W. D. Oakley.*
*Primary Examination.*—H. N. Vineberg, New York.

---

* Deceased.

1878. HOLMES' MEDALIST.—H. N. Vineberg, New York.
*Final Examination.*—T. W. Mills, M.A., London, Eng.
*Primary Examination.*—W. R. Sutherland.
SUTHERLAND GOLD MEDAL.—J. M. Lefebvre.

1879. HOLMES' MEDALIST.—J. B. Lawford, London, Eng.
*Final Examination.*—A. W. Imrie, Detroit.
*Primary Examination.*—J. A. McDonald, Montreal.
SUTHERLAND GOLD MEDAL.—W. L. Grey, Pembroke, O.

1880. HOLMES' MEDALIST.—J. A. McDonald, Montreal.
*Final Examination.*—H. B. Small, Ottawa.
*Primary Examination.*—James Ross, B.A.
SUTHERLAND GOLD MEDAL.—H. W. Thornton, B.A.

1881. HOLMES' MEDALIST.—James Ross, B.A.*
*Final Examination.*—John W. Ross, Cohoes, N.Y.
SUTHERLAND GOLD MEDAL.—C. E. Cameron, Syracuse, N.Y.

1882. HOLMES' MEDALIST.—R. J. B. Howard, B.A., London, Eng.
*Final Examination.*—Henry V. Ogden, B.A., Milwaukee, Wis.
*Primary Examination.*—George A. Graham, Kansas City, Mo.
SUTHERLAND GOLD MEDAL.—Wyatt G. Johnston.*
MORRICE SCHOLAR.—Wyatt G. Johnston.*

1883. HOLMES' MEDALIST.—C. E. Cameron, Syracuse, N.Y.
*Final Examination.*—J. B. Loring, Chicago, Ill.
*Primary Examination.*—Ed. G. Wood, Nashville, Tenn.
SUTHERLAND GOLD MEDAL.— R. F. Ruttan, B.A., Montreal, Q.
MORRICE SCHOLAR—R. F. Ruttan, B.A., Montreal, Q.

1884. HOLMES' MEDALIST.—Wm. A. Ferguson, Moncton, N.B.
*Final Examination.*—James P. McInerney, St. John, N.B.
*Primary Examination.*—Smith Gustin, Bay City, Mich.
SUTHERLAND GOLD MEDAL.—John Elder, B.A., Montreal.

1885. HOLMES' MEDALIST.—Edwin G. Wood, Nashville, Tenn.
*Final Examination.*—Smith Gustin, Bay City, Mich.
*Primary Examination.*—Ed. J. Evans, La Crosse, Wis.
SUTHERLAND GOLD MEDAL.—H. A. Lafleur, B.A., Montreal, Q.

1886. HOLMES' MEDALIST.—Herbert S. Birkett, Montreal, Q.
*Final Examination.*—Walter W. White, M.A., St. John, N.B.
*Primary Examination.*—William I. Bradley.*
SUTHERLAND GOLD MEDAL.—William I. Bradley.*

1887. HOLMES' MEDALIST.—Ed. Evans, La Crosse, Wis.
*Final Examination.*—Henri A. Lafleur, B.A., Montreal, Q.
*Primary Examination.*—A. E. Garrow, Montreal, Q.
SUTHERLAND GOLD MEDAL.—John Creasor, Toronto, O.

1888. HOLMES' MEDALIST.—N. D. Gunn.*
*Final Examination.*—W. G. Stewart, Montreal, Q.
*Primary Examination.*—R. E. McKechnie, Nanaimo, B.C.
SUTHERLAND GOLD MEDAL.—C. W. Bissett, St. Peters, N.S.

1889. HOLMES' MEDALIST.—Alex. E. Garrow, Montreal, Q.
*Final Examination.*—Hugh McKercher.*
*Primary Examination.*—Wm. Arthur Brown, Chesterville, O.
SUTHERLAND GOLD MEDAL.—John C. Clemesha, Port Hope, O.

---

* Deceased.

1890. HOLMES' MEDALIST.—R. E. McKechnie, Nanaimo, B.C.
*Final Examination.*—E. J. Bowes, Seattle, Wash.
L. M. V. Murray, New Decatur, Alabama.
*Primary Examination.*—James Henderson.*
SUTHERLAND GOLD MEDAL.—Thomas Jameson, Rochester, N.Y.
CLEMESHA PRIZE.—A. H. Coleman, Tacoma, Wash.

1891. HOLMES' MEDALIST.—W. A. Brown, Chesterville, Ont.
*Final Examination.*—W. F. Hamilton, Montreal, Q.
*Primary Examination.*—W. E. Deeks, Canal Zone, Panama.
SUTHERLAND GOLD MEDAL.—J. A. Henderson, Montreal, Q.
CLEMESHA PRIZE.—W. S. Morrow, Montreal, Q.

1892. HOLMES' MEDALIST.—Thomas Jameson, Rochester, N.Y.
*Final Examination.*—James Henderson.*
*Primary Examination.*—A. Davidson, St. Albans, Vt.
SUTHERLAND GOLD MEDAL.—A. Davidson, St. Albans, Vt.
CLEMESHA PRIZE.—W. B. H. Massiah, Barbadoes, W.I.

1893. HOLMES' MEDALIST.—W. E. Deeks, B.A., Canal Zone, Panama.
*Final Examination.*—John Alexander Henderson, Montreal, Q.
*Primary Examination.*—W. J. LeRossignol, B.A.
SUTHERLAND GOLD MEDAL.—Walter J. LeRossignol, B.A.
CLEMESHA PRIZE.—R. B. McKay, B.A., Montreal, Q.

1894. HOLMES' MEDALIST.—Andrew A. Robertson, B.A., Montreal, Q.
*Final Examination.*—Albert G. Nichols, M.A., Montreal, Q.
*Primary Examination.*—W. N. Kendrick, Spring Valley, Minn.
SUTHERLAND MEDAL.—G. D. Robins, B.A., Montreal, Q.
CLEMESHA PRIZE.—Allan Davidson, St. Albans, Vt.

1895. HOLMES' MEDALIST.—Wm. A. Feader, Dickinson's Landing, O.
*Final Examination.*—Wm. G. Reilly, Montreal, Q.
*Primary Examination.*—C. B. Keenan, Montreal, Q.
SUTHERLAND MEDAL.—C. B. Keenan, Montreal, Q.
CLEMESHA PRIZE.—Allan Davidson, St. Albans, Vt.

1896. HOLMES' MEDALIST.—Geo. Dougall Robins, B.A., Montreal, Q.
*Final Examination.*—Geo. Reginald Deacon, Stratford, Ont.
SUTHERLAND MEDAL.—A. L. McMurtry, Agnascalienter, Mexico.
CLEMESHA PRIZE.—Robt. Oswald Ross, Derby Line, Vt.
*Second Year Examination.*—W. O. Rose, Nelson, B.C.
*First Year Examination.*—A. H. Gordon, Montreal, Q.

1897. HOLMES' MEDALIST.—John G. McDougall, Amherst, N.S.
*Final Examination.*—A. R. Pennoyer, Montreal, Q.
CLEMESHA PRIZE.—I. H. Laidley, Montreal, Q.
*Third Year Examination.*—W. H. Dalpé, B.A., Montreal, Q.
*Second Year Examination.*—F. J. Nicholson, B.A., Vancouver, B.C.
*First Year Examination.*—E. R. Secord, Brantford, Ont.

1898. HOLMES' MEDALIST.—W. O. Rose, Nelson, B.C.
*Final Prizeman.*—R. F. Beattie.
SUTHERLAND MEDAL.—J. R. O'Brien, Ottawa, Ont.
CLEMESHA PRIZE.—C. R. Peters, Montreal, Q.
*Third Year Prize.*—A. H. Gordon, Montreal, Q.
*Second Year Prize.*—E. R. Secord, Brantford, Ont.
*First Year Prize.*—J. Bruce, B.A., Sydney, C.B.

---

* Deceased.

1899. HOLMES' MEDALIST.—A. H. Gordon, Montreal, Q.
*Final Prizeman.*—T. G. McNiece.*
SUTHERLAND MEDAL.—J. W. T. Patton, Truro, N.S.
CLEMESHA PRIZE.—F. J. Nicholson, B.A., Vancouver, B.C.
*Third Year Prize.*—E. R. Secord, Brantford, Ont.
*Second Year Prize.*—R. H. Ker, B.A., Vancouver, B.C.
*First Year Prize.*—R. M. Van Wart, B.A., New Orleans, La.

1900. HOLMES' MEDALIST.—E. R. Secord, Brantford, Ont.
*Final Prizeman.*—J. W. T. Patton, Truro, N.S.
SUTHERLAND MEDAL.—H. McN. Collison, Dixon's Corners, Ont.
CLEMESHA PRIZE.—C. K. P. Henry, Westmount, Q.
*Third Year Prize.*—R. H. Ker, B.A., Vancouver, B.C.
*Second Year Prize.*—R. M. Van Wart, B.A., New Orleans, La.
*First Year Prize.*—W. E. Nelson, Montreal, Que.

1901. HOLMES' MEDALIST.—R. H. Ker, B.A., Vancouver, B.C.
*Final Prizeman.*—J. Bruce, B.A., Sydney, C.B.
SUTHERLAND MEDAL.—R. McL. Van Wart, B.A., New Orleans, La.
CLEMESHA PRIZE.—L. F. Robertson, B.A., Stratford, Ont.
*Third Year Prize.*—R. McL. Van Wart, B.A., New Orleans, La.
*Second Year Prize.*—E. M. McLaughlin, Winona, Minn.
*First Year Prize.*—J. A. Nutter, B.A., Montreal, Que.

1902. HOLMES' MEDALIST.—R. McL. Van Wart, B.A., New Orleans, La.
*Final Prizeman.*—W. A. Gardner, B.A., Huntingdon, Que.
SUTHERLAND MEDAL.—E. M. McLaughlin, Winona, Minn.
*Third Year Prize.*—F. S. Patch, B.A., Montreal, Que.
*Second Year Prize.*—J. A. Nutter, B.A., Montreal, Que.
*First Year Prize.*—F. J. Tees, B.A., Montreal, Que.

1903. HOLMES' MEDALIST.—E. M. McLaughlin, Winona, Minn.
*Final Prizeman.*—F. S. Patch, B.A., Montreal, Que.
SUTHERLAND MEDAL.—J. G. Wilmore, London, Eng.
*Third Year Prize.*—J. L. Robinson, Waco, Texas.
*Second Year Prize.*—H. C. Mersereau, Doaktown, N.B.
*First Year Prize.*—C. S. Williams, Tyne Valley, P.E.I.

1904. HOLMES' MEDALIST.—J. A. Nutter, B.A., Montreal, Q.
*First Prizeman.*—J. L. Robinson, Waco, Texas.
SUTHERLAND MEDAL.—J. H. MacDermot, Gordontown, Jamaica, B.W.I.
*Third Year Prize.*—H. G. Mersereau, Doaktown, N.B.
*Third Year Prize.*—R. S. MacArthur, Summerside, P.E.I.
*First Year Prize.*—R. W. Benvie, Salt Springs, N.S.

1905. HOLMES' MEDALIST.—H. C. Mersereau, Doaktown, N.B.
SUTHERLAND MEDAL.—D. R. Fraser, Montague Bay, P.E.I.
*Final Prizeman.*—F. J. Tees, B.A., Montreal, Que.
*Third Year Prize.*—R. S. MacArthur, Summerside, P.E.I.
*Second Year Prize.*—R. M. Benvie, Salt Springs, N.S.
*First Year Prize.*—R. H. McDonald, North Bedeque, P.E.I.

---

* Deceased.

1906. HOLMES' MEDALIST.—R. S. MacArthur, Summerside, P.E.I.
*Final Prizeman.*—T. A. Lomer, B.A., Montreal, Que.
WOOD GOLD MEDAL for best examination in all clinical branches:—R. McL. Shaw, B.A., Penobsquis, N.B.
SUTHERLAND MEDAL.—G. E. J. Lannin, Hamilton, Ont.
*Third Year Prize.*—L. H. Trufant, A.B., Auburn, Me.
*Second Year Prize.*—R. B. Dexter, B.A., Wolfville, N.S.
*First Year Prize.*—L. C. Conn, St. Catharines, Ont.

1907. HOLMES' MEDALIST.—R. M. Benvie, Salt Springs, N.S.
*Final Prizeman.*—L. H. Trufant, B.A., Auburn, Me.
*Wood Medalist.*—R. M. Benvie, Salt Springs, N.S.
*Woodruff Medalist.*—L. H. Trufant, A.B., Auburn, Me.
*Sutherland Medalist.*—R. H. McDonald, North Bedeque, P.E.I.
*Third Year Prize.*—W. P. P. Kirby, Georgetown, N.B.
*Second Year Prize.*—F. H. Funk, Ruskin, B.C.
*First Year Prize.*—H. B. Logie, Chatham, N.B.

1908. HOLMES' MEDALIST.—W. J. P. MacMillan, Clermont, P.E.I.
*Final Prizeman.*—G. B. Murphy, B.A., Brockville, Ont.
*Wood Gold Medalist.*—F. C. Clarke, Coverley, Barbadoes, W.I.
*Woodruff Gold Medalist.*—J. S. Simpson, Maynard, Ont.
*Sutherland Medalist.*—C. M. Kelly, B.A., Springfield, N.B.
*Third Year Prizeman.*—E. H. Funk, Ruskin, B.C.
*Second Year Prizeman.*—H. A. Campbell, Sherbrooke, Que.
*First Year Prizeman.*—D. S. Lewis, M.Sc., Montreal, Que.

1909. HOLMES' MEDALIST.—E. H. Funk, Ruskin, B.C.
*Final Prizeman.*—L. C. Conn, St. Catharines, Ont.
WOOD GOLD MEDALIST.—R. H. Bugbee, Ph.B., North Attleboro, Mass.
WOODRUFF GOLD MEDALIST.—E. H. Funk, Ruskin, B.C.
SUTHERLAND MEDALIST.—J. H. Allingham, B.A., St. John, N.B.
THE JOSEPH HILS PRIZE.—J. R. Fraser, Lakefield, Ont.
SIR WILLIAM DAWSON SCHOLARSHIP.—C. M. Kelly, B.A., Springfield, N.B.
THE MORLEY-DRAKE PRIZE.—D. M. Brown, Motherwell, Scotland.
*Third Year Prizeman.*—Sidney B. Peele, New Westminster, B.C.
*Second Year Prizeman.*—F. H. MacKay, Mount Stewart, P.E.I.
*First Year Prizeman.*—H. W. Wade, Millis, Mass.

1910. HOLMES' MEDALIST.—T. A. Robinson, St. Mary's, Ont.
*Final Prizeman.*—H. Macmillan, Victoria, B.C.
WOOD GOLD MEDALIST.—Sidney B. Peele, New Westminster, B.C.
WOODRUFF GOLD MEDALIST.—Sidney B. Peele, New Westminster, B.C.
SUTHERLAND MEDALIST.—D. S. Lewis, M.Sc., Montreal Que.
THE JOSEPH HILS PRIZE.—C. D. Hamilton, Cornwall, Ont.
THE MORLEY-DRAKE PRIZE.—F. H. Mackay, Mount Stewart, P.E.I.
*Third Year Prizeman.*—F. H. Mackay, Mount Stewart, P.E.I.
*Second Year Prizeman.*—A. L. Jones, Victoria, B.C.
*First Year Prizeman.*—C. R. Joyce, Woodstock, Ont.

1911. HOLMES' MEDALIST.—W. O. Gliddon, B.A., Ottawa, Ont.
*Final Prizeman.*—E. H. Falconer, Prentice, Wisc.
WOOD GOLD MEDALIST.—H. J. G. Geggie, Beauport, Que.
WOODRUFF GOLD MEDALIST.—W. A. G. Bauld, B.A., Halifax, N.S.
SUTHERLAND MEDALIST.—W. G. Morris, Regina. Sask.
THE JOSEPH HILS PRIZE.—C. R. Bourne, New Westminster, B.C.
THE MORLEY-DRAKE PRIZE.—R. H. Malone, Antigua, B.W.I.
*Fourth Year Prizeman.*—D. S. Lewis, M.Sc., Montreal.
*Third Year Prizeman.*—R. H. Malone, Antigua, B.W.I.
*Second Year Prizeman.*—C. R. Joyce, Woodstock, Ont.
*First Year Prizeman.*—Norman M. Guiou, Ottawa, Ont.

## DIRECTORY OF GRADUATES IN MEDICINE.

| | | |
|---|---|---|
| Abbott, Maude E., B.A., (Hon.) | Montreal | 1910 |
| Aborn, W. H. | Hawley, Minn. | 1887 |
| Adami, J. G. (ad eundem) | Montreal | 1899 |
| Adams, H. P., D.D.S. | Montreal | 1906 |
| Addison, Jas. L. | St. George, O. | 1884 |
| Addy, G. A. B. | St. John, N.B. | 1890 |
| Ainley, L. T., B.A. | Wadena, Sask. | 1904 |
| Ainley, W. E., B.A. | Lake Edward, Que. | 1904 |
| Akerley, A. W. K. | National Soldiers' Home, Milwaukee, Wisc. | 1900 |
| Alexander, C. C. | St. George, N.B. | 1895 |
| Alexander, Robert A. | Grimsby, Ont. | 1871 |
| Alexander, W. W. | Lachute, Que. | 1891 |
| Alford, J. H. | 197 O'Connor St., Ottawa, Ont. | 1904 |
| Alguire, A. R. | Cornwall, Ont. | 1905 |
| Alguire, Duncan O. | Cornwall, Ont. | 1873 |
| Allan, Hamilton | Tacoma, Wash. | 1872 |
| Allan, J. H. B. | | 1885 |
| Allan, R. | Roblin, Man. | 1003 |
| Allard, Emery | | 1866 |
| Allen, C. E. | Swanton, Vt. | 1883 |
| Allen, H. C. B. | Cape Tormentine, N.B. | 1906 |
| Allen, J. A. L. | Innisfail, Alta. | 1910 |
| Allen, J. H., B.A. | Barnesville, N.B. | 1895 |
| Allen, K. W. | | 1910 |
| Alley, G. T. | Charlottetown, P.E.I. | 1899 |
| Allingham, J. H., B.A. | Fairville, N.B. | 1910 |
| Allum, A. W. | Renfrew, Ont. | 1903 |
| Amant, Harry | Chandlerville, Ill. | 1910 |
| Ames, C. A. | | 1902 |
| Anderson, Alex | Med. Dept., Indian Army, Calcutta India | 1866 |
| Anderson, C. W., B.A. | Halifax, N.S. | 1903 |
| Anderson, D. P., B.A. | Montreal. | 1895 |
| Anderson, F. O. (ad eun) | Montreal. | 1906 |
| Anderson, W. M. | Midgic, N.B. | 1910 |
| Andrews, J. J. | 128 E. 33rd St., Chicago, Ill. | 1903 |
| Anthony, T. B. | Sand Coulee, Mont. | 1902 |
| Anthony, X. L. | Spokane, Wash. | 1895 |
| Arbuckle, J. W. | Summerside, P.E.I. | 1908 |
| Archer, Thos. | Wandsworth, London, S.W. Eng. | 1869 |
| Archibald, D. W. | North Sydney, C.B. | 1909 |
| Archibald, E. W., B.A. | Montreal. | 1896 |
| Argue, J. F. | 116 Nepean St., Ottawa, Ont. | 1896 |
| Armstrong, G. E. | Montreal. | 1877 |
| Armstrong, J. W., B.A. | Shawville, Que. | 1900 |
| Arnold, D. R., B.A. | Welsford, N.B. | 1906 |
| Arthur, J. R. | Perth, Ont. | 1907 |

| | | |
|---|---|---|
| Arthur, R. H. | Sudbury, Ont. | 1885 |
| Arton, O. A. | Bailey's Bay, Bermuda, W.I. | 1908 |
| Atkinson, H.S. | Bay Roberts, Nfld. | 1904 |
| Atkinson, P. McL. | Albert, N.B. | 1909 |
| Atkinson, Robert | | 1862 |
| Auld, F. M., B.A. | Weihwei Fu, Honan, China | 1909 |
| Auld, J. W. | Hillcrest, Vancouver, B.C. | 1906 |
| Ault, Alexander | Brooklyn, N.Y. | 1860 |
| Ault, Chas., | Montreal. | 1855 |
| Ault, C. A. | Enterprise, Ore. | 1890 |
| Ault, E. D. | Acton, Ont. | 1868 |
| Austin, Fred. John | Sherbrooke, Que. | 1862 |
| Auston, J. B. | Brighton, Ont. | 1906 |
| Ayer, N., M.A. | Petitcodiac, N.B. | 1880 |
| Aylen, E.D. | Montreal. | 1893 |
| Aylen, P. | Fort Saskatchewan, Alta. | 1886 |
| Aylen, W. W. | Grosse Isle, Que. | 1889 |
| Aylmer, A. L. | 329 Central Ave., Minneapolis, Minn. | 1899 |
| Backhouse, J. B. | | 1870 |
| Baer, D. C. | Moundridge, Kansas | 1888 |
| Bailey, C. V. | 73 Ellis Place, Ossining-on-Hudson, N.Y. | 1909 |
| Bailey, G. W. | Fredericton, N.B. | 1907 |
| Bailey, John W., B.A. | Seattle, Wash. | 1895 |
| Baillie, S. A., B. A. | Montreal. | 1902 |
| Baird, James G. | Riverside, Calif. | 1870 |
| Baird, T. A. D. | 235 Wash. Ave., Bay City, Mich. | 1885 |
| Baird, W. S. | General Hospital, Montreal | 1907 |
| Baldwin, W. J., A.B. | Ogdensburg, N.Y. | 1910 |
| Ballantyne, C. T. | 199 Rideau St., Ottawa, Ont. | 1900 |
| Ballem, J. C., B.A. | Mt. Albion, P.E.I. | 1908 |
| Ballon, D. H., B.A. | Montreal. | 1909 |
| Bancroft, A. G. | Bridgetown, Barbadoes, W.I. | 1911 |
| Banfill, S. A. | East Angus, Que. | 1898 |
| Barclay, J. | Montreal. | 1897 |
| Barlow, W. L., B.A. | Montreal | 1898 |
| Barry, J. L. | Humboldt, Sask. | 1908 |
| Basken, J. T. | 350 Somerset St., Ottawa | 1895 |
| Bauld, W. A. G., B.A., | Halifax, N.S. | 1911 |
| Bayfield, G. E. | Vancouver, B.C. | 1898 |
| Bayfield, T. F. | Portage la Prairie, Man. | 1901 |
| Baynes, Donald, M.A. | 14 Brooks St., Gros. Sq., London, Eng. | 1876 |
| Baynes, Geo. Aylmer | | 1869 |
| Bazin, A. T. | Montreal. | 1894 |
| Beadie, W. D. | Moore Bldg., St. Paul, Minn. | 1900 |

| | | |
|---|---|---|
| Bearman, G. P. | . . | 1898 |
| Beatty, E. D. | South March, Ont. | 1895 |
| Beattie, R. F. | . . | 1898 |
| Beaudry, Louis H. | 36 Quincy Ave., Pawtucket, R.I. | 1871 |
| Bechtel, A. D. | Victoria, B.C. | 1908 |
| Beckstead, M. | Lisbon Centre, N. Y. | 1878 |
| Beers, A. H. | Shawville, Que. | 1891 |
| Bélanger, E. R. | . . | 1901 |
| Bell, Dudley J, M.D. | Granville, Yukon | 1911 |
| Bell, J. | New Glasgow, N.S. | 1898 |
| Bell, J. H., B.A. | White Star S.S. Co., Liverpool, Eng. | 1888 |
| Bell, Robert, C.E. | Ottawa, Ont. | 1878 |
| Bell, Robert W. | Toronto, Ont. | 1873 |
| Belleau, Alfred | Quebec, Que. | 1862 |
| Bender, Prosper | Essex Chambers, Boston, Mass. | 1865 |
| Benner, F. A. | Bayham, Ont. | 1910 |
| Bennett, S. J. | Inverness, Que. | 1908 |
| Bennie, R. | Bay Mills, Mich. | 1891 |
| Benny, J. J. (ad eun) | Montreal. | 1906 |
| Benoit, H. W. | Kings Co. Hosp., Brooklyn, N.Y. | 1909 |
| Bentley, J. S., B.A. | St. John, N.B. | 1904 |
| Benvie, R. M. | Salt Springs, N.S. | 1907 |
| Bercovitch, A. | Winnipeg, Man. | 1906 |
| Bernstein, D. H. | Montreal, Que. | 1907 |
| Berry, R. P. | Clermont, Iowa | 1888 |
| Berwick, G. A. | Montreal. | 1892 |
| Birkett, H. S. | Montreal. | 1886 |
| Bishop, C. W. | Daton Medical Building, Minneapolis, Minn. | 1895 |
| Bishop, G. A. | Crossfield, Alta. | 1903 |
| Bishop, L. C. | Marbleton, Que. | 1903 |
| Bishop, T. E. | Harvey Bank, N.B. | 1900 |
| Bissett, C. P. | St. Peter's, N.S. | 1890 |
| Black, J. C. | Regina, Sask. | 1904 |
| Black, V. E., B.A. | Amherst, N.S. | 1910 |
| Blackader, Alex. D., B.A. | Montreal. | 1871 |
| Blackader, E. H. P., B.A. | Ottawa, Ont. | 1887 |
| Blackett, J. W., B.A. | Fort Covington, N.Y. | 1898 |
| Blake, E. A. | South Stukeley, Que. | 1906 |
| Blake, J. J. | Charlottetown, P.E.I. | 1901 |
| Blakeman, F. W. | Lisle, Ont. | 1904 |
| Blanchard, H. B. | Columbus, N. Dak. | 1907 |
| Blanchet, S. F. | Saranac Lake, N.Y. | 1908 |
| Blair, A. K. | Chicoutimi, Que. | 1903 |
| Blair, H. G. F. | North Gower, Ont. | 1902 |
| Blow, T. H. | Calgary, Alta. | 1895 |
| Blunt, H. W. | Granby, Que. | 1893 |
| Boggs, G. W. | 1100 Robson St., Vanco'ver | 1886 |
| Bonneli, V., Jr., B.A. | Vicksburg, Miss. | 1906 |
| Bonesteel, S. A. | . . | 1881 |
| Bonin, R. P. | Montreal, Que. | 1904 |

| | | |
|---|---|---|
| Bonnell, S. | Fernie, B.C. | 1896 |
| Booth, G. E. | Ottawa, Ont. | 1910 |
| Boone, S. W., B.A. | Presque Isle, Maine | 1887 |
| Booth, J. S. | Montreal. | 1889 |
| Bostwick, W. E. | Algonac, Mich. | 1893 |
| Boucher, R. B. | Vancouver, B.C. | 1895 |
| Boudreau, F. G. | Charity Hosp., Cleveland, Ohio. | 1910 |
| Boulter, J. H., B.A. | 12 Atkinson Ave., Detroit, Mich. | 1903 |
| Bourne, Wesley | Pollards, St. Phillips, Barbados, W.I. | 1911 |
| Bowen, G. A. | Magog, Que. | 1892 |
| Bowen, W., B.A. | Knoxville, Tenn. | 1887 |
| Bower, Silas J. | Waddington, N.Y. | 1865 |
| Bowes, E. J. | 410 Union Ave., Seattle, Wash. | 1890 |
| Bowie, R. A. | Brockville, Ont. | 1891 |
| Bowles, C. T. | Iroquois, Ont. | 1899 |
| Boyce, B. F. | Kelowna, B.C. | 1892 |
| Boyd, Jay | | 1887 |
| Boyd, O. | Medicine Hat, Alta. | 1903 |
| Boyd, R. M. | West Fort William, Ont. | 1903 |
| Boyle, Albert D. | Carbonear, Nfld. | 1877 |
| Bradley, J. H. | | 1900 |
| Bramley-Moore, A. | Sea Dog's Cove, N.B. | 1909 |
| Brandon, John | Hamilton, Ont. | 1867 |
| Brannen, J. P. | Long Lake, N.Y. | 1900 |
| Bray, D. G., B.A. | Sayville, N.Y. | 1907 |
| Brears, C. F. | England. | 1898 |
| Briggs, J. A. | New Westminster, B.C. | 1905 |
| Broderick, E. J. | St. John, N.B. | 1890 |
| Brodeur, Alphonse | Roxton Falls, Que. | 1863 |
| Brooks, J. E., B.A. | 37 Essex St., Bangor, Me. | 1903 |
| Brossard, J. B. J. | Laprairie, Que. | 1875 |
| Brouse, J. E. | New Denver, B.C. | 1892 |
| Brown, C. H., B.A. | 212 O'Connor St., Ottawa, Ont. | 1898 |
| Brown, C. L., B.A. | Ayer's Cliff, Que. | 1897 |
| Brown, D. M. | 18 Wilton St., Glasgow, Scotland. | 1910 |
| Brown, E. L. | Aultsville, Ont. | 1900 |
| Brown, F. F. | Cornwall, Ont. | 1905 |
| Brown, F. W. A. | Oshkosh, Wis. | 1892 |
| Brown, G. A. | Montreal. | 1889 |
| Brown, G. T. | Danville, Que. | 1906 |
| Brown, Harry | | 1873 |
| Brown, J. A. | Court St., Kankakee, Ill. | 1893 |
| Brown, J. L. | Plattsville, Ont. | 1879 |
| Brown, P. E. | Ste. Anne de Bellevue, Que. | 1863 |
| Brown, W. A. | Chesterville, Ont. | 1891 |
| Brown, W. F., B.A. | Plattsburg, N.Y. | 1899 |
| Brown, W. K. | Montreal. | 1897 |
| Browne, J. G., B.A. | Montreal. | 1901 |
| Browne, Thos. L. | Richmond, Que. | 1881 |

| | | |
|---|---|---|
| Browning, W. E. | Caledonia, Minn. | 1899 |
| Bruce, D. A. | Atlantic, Mass. | 1892 |
| Bruce, J., B.A. | Sydney, C.B. | 1901 |
| Brunelle, P. | 841 Moody St., Lowell, Mass. | 1896 |
| Brydon-Jack, F. W. | Vancouver, B.C. | 1907 |
| Brayson, William G. | | 1867 |
| Budyk, J. S. | Montreal. Que. | 1907 |
| Buffett, C., B.A. | Paanilo, Hawaii, H.I. | 1900 |
| Bugbee, R. G., Ph.B. | Rhode Island Hospital, Providence, R.I. | 1909 |
| Burch. B. F. | Spokane, Wash. | 1866 |
| Burgess, H. C. | Maternity Hosp., Montreal | 1905 |
| Burgess, J. A. | Lakefield, Ont. | 1868 |
| Burke, G. H. | Ogdensburg, N.Y. | 1906 |
| Burland, Benj. W. | Cedar Keys, Fla. | 1882 |
| Burland, S. C. | 1558 Wabash ave., Chicago | 1877 |
| Burland, W. H. | Punta Gorda, Fla. | 1875 |
| Burnett, P. | Montreal. | 1900 |
| Burnett, W. (ad eundem) | Montreal. | 1906 |
| Burnett, W. A., B.A. | Vancouver, B.C. | 1899 |
| Burns, A. S., B.A. | Bridgetown, N.S. | 1903 |
| Burrell, R. H., B.A. | Amherst, N.S. | 1897 |
| Burris, J. S. | Kamloops, B.C. | 1899 |
| Burrit, C. H. | Mitchell, Ont. | 1890 |
| Burritt, Horatio C. | 86 Wellesley St., Toronto. | 1863 |
| Burrows, F. N. | Bathgate, N.D. | 1885 |
| Burton, W. E. | Bridgetown, B.W.I. | 1910 |
| Burwash, Hy. J. | 42 Madison St., Chicago. | 1879 |
| Busby, J. | Harrison, Idaho | 1891 |
| Butler, Billa F. | London, Ont. | 1879 |
| Butler, P. E. | Milltown, N.B. | 1901 |
| Byers, J. R. | St. Agathe, Que. | 1902 |
| Byers, W. G. M. | Montreal. | 1894 |
| Calkin, B. H. | 142 Gore St., Jamaica Plains, Mass. | 1891 |
| Callbeck, A. DesB. | Hardisty, Alta. | 1906 |
| Cameron, A. B. | Loughead, Alta. | 1906 |
| Cameron, C. E. | Box 3271, Boston, Mass. | 1883 |
| Cameron, D. A. | Alpena, Mich. | 1885 |
| Cameron, James C. | Montreal. | 1874 |
| Cameron, J. R. | Charlottetown, P.E.I. | 1909 |
| Cameron, J. J. | Kearney, Neb. | 1888 |
| Cameron, K., B.A | Montreal. | 1887 |
| Cameron, L. G. | | 1899 |
| Campbell, A. | Souris West, P.E.I. | 1902 |
| Campbell, A. D. | Glencoe, Ont. | 1911 |
| Campbell, D. G., B.A. | Montreal. | 1908 |
| Campbell, Geo. G., B.Sc. | Montreal. | 1889 |
| Campbell,, I. G. | Vancouver, B.C. | 1897 |
| Campbell, J | | 1876 |
| Campbell, John | 669 Leonard St., Brooklyn, N.Y. | 1869 |
| Campbell, J. A. E., B.A. | | 1902 |

| | | |
|---|---|---|
| Campbell, J. DeL. | Arnprior, Ont. | 1908 |
| Campbell, J. M. | Saginaw, E. Side, Mich. | 1890 |
| Campbell, Lorne | Peaton Cove, Dumbartonshire, Scot | 1882 |
| Campbell, R. P., B.A | Montreal. | 1901 |
| Campbell, W. G. | Ellice St., Winnipeg, Man. | 1903 |
| Canegata, D. C., B.A., Christiansted, St. Croix, D.W.I. | | 1911 |
| Cannon, Gilbert | Watertown, N.Y. | 1877 |
| Carmichael, D. A. | Federal Bdg., Buffalo, N.Y. | 1873 |
| Carmichael, H. B. W. | Montreal. | 1892 |
| Carey, Augur, D. L. (ad eun) | | 1864 |
| Carlaw, C. M. | Pillsbury Bdg., Minneapolis, Minn. | 1891 |
| Carlyle, D. A. | Morewood, Ont. | 1901 |
| Carman, J. B. | Detroit City, Minn. | 1879 |
| Carman, Philip E. | | 1879 |
| Carnell, A. H. | St. Johns, Nfld. | 1911 |
| Carney, M. J., B.A. | Halifax, N.S. | 1909 |
| Carnochan, W. L. C. | N.S. Steel and Coal, Wabana, Nfld. | 1904 |
| Carnwath, J. E. M. | | 1900 |
| Carroll, R. W. | | 1893 |
| Carron, F. B. | | 1896 |
| Carruthers, Geo | Charlottetown, P.E.I. | 1883 |
| Carruthers, R. S. P. | North Bedeque, P.E.I. | 1910 |
| Carson, J. H. | 8 Phœnix Block, Duluth, Minn. | 1881 |
| Carter, Samuel A. | | 1859 |
| Carter, W. LeM., B.A. | Quebec, Que. | 1902 |
| Cartwright, C | 1994 Ogden Ave., Vancouver, B.C. | 1901 |
| Case, W. Hermanus | Hamilton, Ont. | 1879 |
| Casselman, P. C. | | 1899 |
| Cassidy, David M. | M. S. Co. Assy. Lancaster, Eng. | 1867 |
| Cassidy, Geo. A. | Shelby, Iowa. | 1885 |
| Cassidy, J. F. | Goderich, Ont. | 1865 |
| Castleman, A. L. | McCormick Bldg., Salt Lake City, Utah | 1888 |
| Cattanach, A. M. | Superior, Wis. | 1882 |
| Cattanach, W. C. | Dalhousie Mills, Ont. | 1886 |
| Chabot, J. L. | Ottawa, Ont. | 1892 |
| Chagnon, V. G. B. | Fall River, Mass. | 1861 |
| Chamberlain, H. B. | Grand Falls, Nfld. | 1903 |
| Champion, B. H. | Summerside, P.E.I. | 1910 |
| Chandler, A. B., B.A. | Rossland, B.C. | 1906 |
| Chandler, E. C. | Brownlee, Sask. | 1903 |
| Chaplin H. L. S. | St. John's, Nfld. | 1903 |
| Chapman, H. J. | | 1895 |
| Charlton, G. A. | Regina, Sask. | 1900 |
| Charman, F. D. | Wallace, N.S. | 1904 |
| Cherry, William | 1314 Cherry Street, Toledo, Ohio. | 1869 |
| Chevalier, Gustave | Bedford, Que. | 1860 |
| Chevalier, Napoleon E. | Iberville, Que. | 1873 |

| | | |
|---|---|---|
| Chipman, C. J. H., B.A. | Thunder Bay, Ont. | 1868 |
| Chipman R. J. | Portland, Ore. | 1892 |
| Chipman, R. L., M.A. | Kentville, N.S. | 1908 |
| Chipman, W. W. (ad eundem) | Delta, Ont. | 1904 |
| Chipman, W. W. | Montreal. | 1911 |
| Chisholm, Adam Jas. | Everett, Wash. | 1900 |
| Chisholm, H. A., B.A. | Linwood, N.S. | 1905 |
| Chisholm, H. G., B.A. | Antigonish, N.S. | 1910 |
| Chisholm, Murdoch | Halifax, N.S. | 1879 |
| Christie, Edmund | 871 W. 22nd St., Chicago, Ill. | 1882 |
| Christie, F. J. | Butte City, Mont. | 1902 |
| Christie, George H. | Lachute, Que. | 1872 |
| Christie, H. H. | Rocanville, Sask. | 1906 |
| Christie, W., B.A. | 7100 Cottage Grove Ave., Chicago, Ill. | 1887 |
| Church, C. H. | Montreal. | 1896 |
| Church, F. W. | Aylmer, Que. | 1880 |
| Church H. C. | 81 First Av., Ottawa, Ont. | 1903 |
| Church, H. M. | Westmount, Que. | 1896 |
| Church, Mills K. | Merrickville, Ont. | 1864 |
| Churchill, J. L., B.A. | Isaac's Harbor, N.S. | 1896 |
| Churchill, L. P. | Dartmouth, N.S. | 1909 |
| Clark, John | Smethport, Pa. | 1891 |
| Clark, Richard W. | St. Thomas, Ont. | 1870 |
| Clarke, F. C. | Gull Lake, Sask. | 1908 |
| Clarke, F. G. B. | | 1876 |
| Clarke, G. S. | Montgomery Centre, Vt. | 1906 |
| Clarke, J. C. | | 1909 |
| Clarke, J. L. | | 1886 |
| Clarke, J. W. | Tatamagouche, N.S. | 1890 |
| Clarke Octavius H. E. | | 1870 |
| Clarke, T. L. E. | Barbados, W.I. | 1911 |
| Clarke, Wallace, B.A. | Utica, N.Y. | 1871 |
| Clement, Victor A. | | 1869 |
| Clemesha, J. C. | 329 Franklin St., Buffalo, N.Y. | 1891 |
| Clemesha, John W. | Port Hope, Ont. | 1900 |
| Clemesha, W. F. | Port Hope, Ont. | 1867 |
| Clindinin, S. L. | | 1897 |
| Clune, P. J. | City of Ottawa, Ill. | 1890 |
| Clouston, J. R. | Huntingdon, Que. | 1888 |
| Clouston, H. R., B.A. | Huntingdon, Que. | 1911 |
| Coates, H. W. | | 1901 |
| Coborn, Josiah | Hopewell Jct., N.Y. | 1907 |
| Codd, Alfred | Fort Osborne, Winnipeg, Man. | 1865 |
| Codrington, R. F. | | 1902 |
| Cody, H. C. | Centreville, N.B. | 1909 |
| Coffin, J. D. | Plaster Rock, N.B. | 1900 |
| Coffin J. W. | Mt. Stewart, P.E.I | 1904 |
| Colby, J. C., B.A. | Stanstead, Q. | 1902 |
| Coleman, A. H. | Tacoma, Wash | 1890 |
| Coleman, C. E. | Chatham, N.B. | 1902 |
| Collison, H. McN. | Dixon's Corners, O. | 1901 |

| | | |
|---|---|---|
| Collison, J | Red Deer, Alta. | 1901 |
| Collison, R. | Strathcona, Alta. | 1878 |
| Colquhoun, P., B.A. | Waterville, Que | 1896 |
| Colvin, A. R. | St. Paul, Minn. | 1894 |
| Commeau, John B. | Farnham, Q. | 1870 |
| Commins, M. E., B.A. | Bath, N.B. | 1895 |
| Conn, L. C. | St. Catharines, Ont. | 1909 |
| Connor, E. L. | Pincher Creek, Alta. | 1905 |
| Conroy, B. A. | Montreal, Que. | 1900 |
| Conroy, C. P. | Edgewater, Colo. | 1888 |
| Conroy, R. J. | Battle Creek, Mich. | 1900 |
| Cook, C. R. | Lucknow, Oudh, India | 1900 |
| Cook. Guy R., B.A. | Louisville, N. Y. | 1876 |
| Cook, Sheldon E. | Lincoln, Nebr. | 1884 |
| Cook, W. J. | Sudbury, Ont. | 1904 |
| Cooke, Sydney P. | 202 Elgin St., Ottawa | 1899 |
| Cooper, M. A. | Ormstown, Q. | 1893 |
| Copeland, Wm. L. | 3148 Warren Ave., Chicago, Ill. | 1872 |
| Corbett, F. A. F., B.A. | Parrsboro, N.S. | 1896 |
| Corbett, G. G. | St. John, N.B. | 1898 |
| Corbett, Wm. H. | | 1854 |
| Corbin, F. G. | Mendoza, Argentine Republic, S.A. | 1890 |
| Corcoran, J. A. | Waterloo, Q. | 1898 |
| Corlis, Josiah | | 1869 |
| Cormack, Wm. | | 1881 |
| Corsan, Douglas | Fernie, B.C. | 1885 |
| Costello, A. E. | Spooner, Wis. | 1900 |
| Costello, W. J. W., B.A. | Buckingham, Que. | 1905 |
| Cotton, T. F., B.A. | Manchester, N.H. | 1909 |
| Cousens, W. C. | 212 Metcalfe St., Ottawa, O | 1882 |
| Covernton, C. F. | | 1905 |
| Covert, A. M. | Canning, N.S. | 1898 |
| Covey, H. W. | | 1907 |
| Cowie, A. M. | | 1887 |
| Cowie, W., B.A. | | 1895 |
| Cowperthwaite, H. H. | St. John's, Nfld. | 1903 |
| Cowperthwaite, W. M. | St. John's, Nfld. | 1900 |
| Cox, C. G. | Buchanan, Sask. | 1909 |
| Cox, J. R. | Jung Hsien, Sz-Chuan, China | 1900 |
| Cox, R. B. | Collinsville, Conn. | 1902 |
| Coyle, Henry W. | Montreal | 1876 |
| Crack, I. E., B.A. | Kemptville, Ont. | 1904 |
| Craig, D. A. | Smith Falls, Ont | 1909 |
| Craig, H. M. | | 1909 |
| Craig, J. E. | 449 Somerset Street, Ottawa, O. | 1899 |
| Craig, M. A. | Lower Lake, Cal. | 1886 |
| Craig, R. H. | Montreal | 1896 |
| Craig, Thornton | Capay, Cal. | 1876 |
| Crang, F. W. | Strathcona, Alta. | 1901 |
| Crease, A. L. | Nelson, B.C. | 1910 |

| | | |
|---|---|---|
| Creasor, J. A., B.A. | Spadina Ave., Toronto ... | 1889 |
| Crichton, Stuart | Sonora, Cal. | 1805 |
| Crocket, W. C., B.A. | Fredericton, N.B. | 1886 |
| Crockett, A. Pierce | St. John, N.B. | 1896 |
| Cron, Chas. | Harbor Grace, Nfld. | 1909 |
| Crowe, H. S., B.A. | Central Onslow, N.S. | 1907 |
| Cowley, D. K. | Granby, Q. | 1880 |
| Cowley, Thos. McJ. | | 1870 |
| Croft, L. V., B.A. | | 1903 |
| Crosby, P. C. | Marshfield, P.E.I. | 1904 |
| Cross, C. E., B.A. | Montreal, Que. | 1909 |
| Crothers, William | Stanbridge, Q. | 1876 |
| Crowell, B. C., B.A. | Blackwell's Island, N.Y. | 1904 |
| Crozier, J. A., B.A. | Port Arthur, O. | 1902 |
| Cruikshank, A. | Salem, Ohio | 1895 |
| Cullen, W. H. | Roxbury, N.Y. | 1902 |
| Culver, C. W. | Hammond, N.Y. | 1910 |
| Cumming, A., B.A. | | 1905 |
| Cumming, W. A. | Buckingham, Que. | 1899 |
| Cumming, W. G., B.A. | Sidney, Vancouver Island | 1903 |
| Curran, T. J. J. | Montreal | 1897 |
| Curren, L. M. | Fairville, N.B. | 1902 |
| Curry, W. A., B.A. | Halifax, N.S. | 1909 |
| Curtis, I. B. | Hartland, N.B. | 1890 |
| Cushing, H. B., B.A. | Montreal | 1898 |
| Cuzner, G. | Rosthern, Sask. | 1900 |
| Dakin, W. A., M.A. | Sackville, N.B. | 1910 |
| Dalpé, W. H., B.A. | Montreal | 1898 |
| Dalton, C. H. | 405 Harvard St., Brookline, Mass. | 1901 |
| Daly, Walter S. | Ogdensburg, N.Y. | 1885 |
| Darche, C. E. | Three Rivers, O. | 1899 |
| Darche, J. A. | 149 King St., Sherbrooke, Que. | 1898 |
| Darey, J. Herbert, M.A. | 1300 Morningside Ave., Sioux City, Iowa | 1885 |
| Davidson, C. | Dominion Bank, Vancouver, B.C. | 1898 |
| Davidson, E. A. | St. Albans, Vt | 1894 |
| Davidson, H. D. | 26 Maple St., Springfield, Mass. | 1904 |
| Davies, Thomas B. | Hull, Q. | 1884 |
| D'Avignon, F. J. | Au Sable Forks, N.Y. | 1909 |
| Davis, D. W. | Brockville, Ont. | 1909 |
| Davis, R. E. | Fallowfield, O. | 1894 |
| Davis, S. | Montreal | 1908 |
| Dawson, R., B.A. | 12 St. James Square, London, Eng | 1882 |
| Day, J. L., M.A. | Westmount, Que. | 1895 |
| Dazé, Henri | Montreal | 1885 |
| Deacon, G. R. | Stratford, O. | 1896 |
| Deane, R. B. | | 1898 |
| Dearborn, H. F. | | 1907 |
| DeBonald, W. S. | | 1862 |

| | | |
|---|---|---|
| Deeks, W. E., B.A. | Ankon Hosp., Canal Zone, Panama | 1893 |
| DeGrosbois, T. B. | Montreal | 1868 |
| Delaney, W. J. | Nangstuck, Conn | 1889 |
| Delmage, F. W., B.A. | | 1897 |
| Denny, H. E., (ad eundem) | London, Eng. | 1911 |
| Denovan, B. | Montreal, Que. | 1907 |
| Derby, W. J. | Plantagenet, O. | 1882 |
| Desmond, F. J. | Newcastle, N.B. | 1888 |
| Dewar, A. | | 1891 |
| Dewar, G. F. | Southport, P.E.I. | 1893 |
| Dewar, J. E. | 2451 Bloomington Ave., Minneapolis, Minn. | 1896 |
| Dewar, R. D. | Melbourne, Ont. | 1908 |
| Dewar, T. A. | 223 Field Ave., Detroit Mich. | 1893 |
| DeWitt, C. E. A., B.A. | Wolfville, N.S. | 1908 |
| Dexter, R. B., B.A. | Argentine Republic | 1909 |
| Dibblee, G. G. | Moore's Mills, N.B. | 1880 |
| Dickson, A. J., B.A. | Pembroke, Ont. | 1903 |
| Dickson, J. A., B.A. | Hamilton, Ont. | 1887 |
| Dickson, S. M., B.A. | Box I, Balfour, Transvaal, S. Africa | 1898 |
| Dickson, W. H. | | 1904 |
| Dillon, W. P. | Ottawa, Ont | 1904 |
| Dixon, J. A. | Hamilton, Ont. | 1907 |
| Dixon, J. D., B.A. | Lachine, Que. | 1902 |
| Dixon, W. E., B.A. | Grand Mere, Que. | 1902 |
| Doherty, W. W. | Campbellton, N.B. | 1885 |
| Donahoe, R. A. | Cardigan, P.E.I. | 1908 |
| Donahue, H. F. | Leominster, Mass. | 1909 |
| Donahue, M. | Cascade, Iowa. | 1896 |
| Donaldson, A. S. | Calgary Alta. | 1901 |
| Donnelly, A. J., B.A. | Cambridge, Mass. | 1900 |
| Donnelly, J. H. | Buffalo, N.Y. | 1906 |
| Donnelly, W. H. | Montreal, Que. | 1903 |
| Dorion, W. A. | Montreal | 1902 |
| Dorland, James | | 1875 |
| Dorsey, J. W. | Charlottetown, P.E.I. | 1909 |
| Dougan, B. H. | Hibernia, N.B. | 1905 |
| Douglass, E., B.A. | Halifax, N.S. | 1904 |
| Douglass, F. C. | Montreal | 1903 |
| Doull, A. E. | Dutch Village, Halifax, N.S. | 1900 |
| Dowler, W. H. | Billings Bridge, Ont. | 1905 |
| Dowling, John F. | Eganville, O. | 1875 |
| Doyle, F. H. | Waltham, Mass. | 1903 |
| Doyle J. J. | 51 N. Park St., Halifax, N.S. | 1897 |
| Doyle, P. E. | Hawkesbury, Ont. | 1910. |
| Drier, N. E. | Vancouver, B.C. | 1899 |
| Drum, L., B.A. D.P.H. | P. A. M. C. Canada, Quebec, Que. | 1896 |
| Drury, W. H. | Pepin, Wis. | 1909 |

| | | |
|---|---|---|
| Dryden, T. A. | Highgate, Jamaica, W.I. | 1911 |
| Drysdale, W. F. | Nanaimo, B.C. | 1894 |
| Dubuc, Charlemagne | Montreal | 1864 |
| Duckett, F. J. | Montreal | 1896 |
| Duckett, William A. | | 1859 |
| Duffy, P. F. | Newcastle, N.B. | 1900 |
| Duford, Thadee A. | St. Sebastien, Q. | 1865 |
| Duggan, R. G. | Hamilton, Ont. | 1906 |
| Duhamel, Louis | Hull, Q. | 1800 |
| Dunbar, D. A. | Alma, P.E.I. | 1910 |
| Dunbar, W. R. | Truro, N.S. | 1897 |
| Duncan, Gedeon M. | Bathurst, N.B. | 1871 |
| Duncan, George C. | Charing Cross Hotel, London, W. C., Eng | 1875 |
| Duncan, James S. | 279 Vauxhall Rd., London, Eng. | 1858 |
| Duncan, J. W. | Montreal | 1901 |
| Duncan, R. G. | Bathurst. N.B. | 1898 |
| Duncan, W. T. | Fergus Falls, Minn. | 1882 |
| Dunlop, A. H. | Crookston, Minn. | 1882 |
| Dunlop, F. T. | St. John, N.B. | 1909 |
| Dunn, J. F. | Elgin, Ont. | 1904 |
| Dunnet, H. W. | Ottawa, Ont. | 1910 |
| Dupuis, Joseph B. | Clarenceville, Q. | 1856 |
| Duval, J. L. | St. Johns, Que. | 1898 |
| Du Vernet, Edward | Digby, N.S. | 1893 |
| Dyer, E. O., B.A. | Sutton, Q. | 1899 |
| Dykes, Watson | Duncan's, B.C. | 1905 |
| Eager, W. H. | Halifax, N.S. | 1900 |
| Eastman, E. B. | Portsmouth, N.H. | 1902 |
| Easton, C. L. | Smith's Falls, O. | 1887 |
| Eaton, C. E. | Columbia Station, Seattle, Wash. | 1904 |
| Ebbett, P. L. B. | Gagetown, N.B. | 1903 |
| Eberts, E. M. von | Montreal | 1897 |
| Edgar, C. J. | North Hatley, Q. | 1887 |
| Edwards, Eliphalet G. | Grand Rapids, Mich. | 1855 |
| Edwards, J. S. | London, O. | 1880 |
| Edwards, Oliver C. | MacLeod, Alta. | 1873 |
| Edwards, W. F. | Airdrie, Alta. | 1907 |
| Egan, W. J. | Sydney Mines, N.S. | 1901 |
| Eggert, C. A. | Atlin, B.C. | 1907 |
| Elder, John, B.A. | Montreal | 1885 |
| Elder, R., B.A. | Granby Que. | 1903 |
| Elderkin, Edwin J. | Weymouth Bridge, N.S. | 1884 |
| Elkinton, A. G. | | 1862 |
| Elliott, F. B. | Mayfair, O. | 1896 |
| Elliott, R., B.A. | Hemmingford, Que. | 1910 |
| Ellis, G. H. | Morewood, Ont. | 1896 |
| Ellis, R. L. | Jacquet River, N.B. | 1901 |
| Ellis, W. E. | Alexandria, Minn. | 1887 |
| Ellis, W. L. | St. John, N.B. | 1895 |
| Ellison, Saram R. | 118 W. 103rd St., New York | 1873 |

| | | |
|---|---|---|
| Ells, R. H., B.A. | Ottawa, Ont. | 1903 |
| Emery, Gordon J. | | 1857 |
| England, F. R. (ad eun.), | Montreal | 1906 |
| English, J. M. | Rossland, B.C. | 1903 |
| Enright, W. E., M.A. | Cote St. Paul, Que. | 1907 |
| Esson, F. G. | | 1889 |
| Estey, A. S. | Calgary, Alta. | 1894 |
| Ethier, Calixte | Montreal | 1867 |
| Evans, D. J. | Montreal | 1890 |
| Evans, E. J. | Lacrosse, Wis. | 1887 |
| Evans, Griffith | Brynkynallt, Bangor, North Wales | 1864 |
| Evans, J. W. | Rossburn, Man. | 1894 |
| Evans, Stuart | Ottawa, O. | 1902 |
| Ewan, R. B. | China | 1896 |
| Ewart, D. | Ottawa South, Ont. | 1906 |
| Ewert, Carl, B.A. | Winnipeg, Man. | 1910 |
| Ewing, W. T. | Montreal, Que. | 1909 |
| Fagan, G. A., B.A. | North Adams, Mass. | 1898 |
| Fairfield, W. E., *ad eundem* | Green Bay, Wis. | 1910 |
| Fairie, J. A. | Montreal, Que. | 1909 |
| Falconer, E. H. | Prentice, Wisc. | 1911 |
| Falkner, Alexander | Lancaster, O. | 1866 |
| Farwell, W. G. | 635 W. 135th St., New York | 1868 |
| Farley, Jas. T. | Fremont, Mich | 1877 |
| Farley, John J. | Belleville, O. | 1873 |
| Farris, H. A. | Saranac Lake, N.Y. | 1907 |
| Farwell, W. A. | Sherbrooke, Q. | 1891 |
| Faulkner, D. W. | Foxboro', O. | 1878 |
| Faulkner, George W. | Stirling, O. | 1871 |
| Faulkner, J. A., B.A. | Stirling, Ont. | 1904 |
| Fawcett, R. F. M. | | 1899 |
| Feader, H. C. | | 1881 |
| Feader, W. A. | Dickinson's Landing, O. | 1895 |
| Featherston, H. C. | | 1902 |
| Feilde, E. C. | Montreal | 1881 |
| Fenton, G. S. | Ottawa, Ont. | 1908 |
| Ferguson, Wm. A., B.A. | Moncton, N.B. | 1884 |
| Ferguson, W. D. T. | | 1888 |
| Ferguson, W. | 768 E. 166th St., New York | 1894 |
| Ferguson, W. H. | | 1903 |
| Field, B. R. | Centreville, N.B. | 1906 |
| Fillmore, E. W. | Advocate Harbor, N.S. | 1887 |
| Finigan, J. F. | Oshawa, Ont. | 1905 |
| Finley, F. G. | Montreal | 1885 |
| Finnie, J. H. | Montreal | 1898 |
| Finnie, John T. | Montreal | 1869 |
| Fish, E. C., B.A. | Melrose, Mass. | 1896 |
| Fisher, E. M. | Grey Stone Park, N.J. | 1904 |
| Fisher, F., B.A. | Birchy Cove, Bay of Islands, Nfld. | 1904 |

| | | |
|---|---|---|
| Fisk, Geo. (ad eun.) | Montreal | 1906 |
| Fisk, W. M. | Montreal | 1896 |
| FitzGerald, C. T. | Harbor Breton, Nfld. | 1899 |
| Flagg, J. D. | 384 Franklin St. Buffalo, N.Y. | 1887 |
| Flegg, R. F. | | 1906 |
| Fleming, J. E. | Stanley Bridge, P.E.I. | 1901 |
| Flemming, G. W. | Petitcodiac, N.B. | 1893 |
| Fletcher, R. W. | 281 W. Broadway, Boston, Mass | 1891 |
| Flinn, J. W. | Kingman, Arizona | 1895 |
| Folkins, C. G. | Canterbury, N.B. | 1904 |
| Folkins, H. G. | Millstream, N.B. | 1902 |
| Forbes, A. E. G. | Little Harbor, N.S. | 1906 |
| Forbes, A. MacKenzie | Montreal | 1898 |
| Forbes, R. D. | 709 Cobb Bdg., Seattle, Wash. | 1903 |
| Forbes, P. R. | | 1898 |
| Forster, J. F. C. | North Adams, Mass | 1902 |
| Fortier, L. A. | St. David de Yamaska, Q. | 1878 |
| Fortin, C. E. F., B.A. | Winnipeg, Man | 1903 |
| Foss, A. F. | Thetford Mines, Q. | 1896 |
| Foster, A. L. | Ottawa, Ont. | 1897 |
| Foster, G. M. | Vancouver, B.C. | 1897 |
| Foster, L. S. | Royal Victoria Hospital | 1909 |
| Fourney, F. W. | East Prince Albert, Sask. | 1900 |
| Fowler, E. S. | | 1894 |
| Fox, C. H. | Clark's, Neb. | 1895 |
| Francis, B. | Sydney Mines, N.S. | 1899 |
| Francis, W. W. *ad eundem* | Montreal | 1909 |
| Fraser, Alex. C. | Pasadena, Calif. | 1877 |
| Fraser, A. D. | Idaho Springs, Colo | 1896 |
| Fraser, D. R. | Montague Bridge, P.E.I. | 1906 |
| Fraser, F. C., B.A. | | 1898 |
| Fraser, H. B., B.A. | Brownsburg, Que. | 1896 |
| Fraser, J. M. | 3253 Indiana Avenue, Chicago, Ill. | 1887 |
| Fraser, J. R. | Lakefield, O. | 1878 |
| Fraser, J. R. | Lakefield, Ont. | 1910 |
| Fraser, M. J. | Stratford, Ont. | 1909 |
| Fraser, S. | Wentworth, N.H. | 1904 |
| Fraser, S. B. | Coaticook, Que. | 1907 |
| Fraser, T. B. | Liverpool, N.S. | 1906 |
| Fraser, W. G. | Pembroke, Ont | 1910 |
| Fraser, William H. | La Salle, Ill | 1867 |
| Freedman, A. | Lachine, Que. | 1908 |
| Freeman, C. H., B.A. | Milton, N.S. | 1900 |
| Freeman, C. M. | Cape Sable Island, N.S. | 1871 |
| Freeze, E. H. | Penobsquis, N.B. | 1903 |
| Fripp, G. D., B.A. | | 1906 |
| Fritz, H. D., B.A. | St. John, N.B. | 1888 |
| Froomess, L. E. | Montreal, Que. | 1910 |
| Frost, A. C. | Ladysmith, B.C. | 1903 |
| Fry, F. M., B.A. | Montreal | 1894 |

| | | |
|---|---|---|
| Fuller, A. T., B.A. | Vancouver, B.C. | 1901 |
| Fuller, G. F. LeRoy | Cowansville, Que. | 1899 |
| Fuller, H. LeRoy, B.A. | Sweetsburg, Que. | 1870 |
| Fuller, W. | Grand Rapids, Mich. | 1866 |
| Fulton, J. H. | St. Chrysostome, Que. | 1863 |
| Fulton, J. A. | | 1894 |
| Funk, E. H. | Ruskin, B.C. | 1909 |
| Furness, A. W. | Vernon, P.E.I. | 1911 |
| Fyfe, A. M. | St. Andrews Jamaica, W. I. | 1908 |
| Fyshe, J. C., B.A. | Bangkok, Siam | 1904 |
| Gabie, W. G. | Kazubazua, Que. | 1907 |
| Gadbois, F. A. | Sherbrooke, Q. | 1898 |
| Gairdner, T. M. | York, Neb. | 1886 |
| Galbraith, W. S. | Lethbridge, Alta. | 1899 |
| Gale, Hugh | Bay City, Mich. | 1882 |
| Gale, W. P. | Quebec, Q. | 1903 |
| Gallagher, J. B., B.A. | Bath, N.B. | 1910 |
| Garcelon, H. W., A.B. | Lewiston, Me. | 1908 |
| Garcelon, W. S., A.B. | Lewiston, Me. | 1907 |
| Gardiner, A. E. | McAdam Junction, N.B. | 1908 |
| Gardiner, R. J. | Craigmont, O. | 1902 |
| Gardner, A. W. | | 1887 |
| Gardner, H. H. | | 1878 |
| Gardner, John J. | Montreal | 1883 |
| Gardner, R. L., B.A. | 442 Bank St., Ottawa, O. | 1901 |
| Gardner, William | Montreal | 1866 |
| Gardner, W. A., B.A. | Winnipeg, Man. | 1902 |
| Garrow, A. E. | Montreal | 1889 |
| Gaviller, Edwin A. | | 1873 |
| Geddes, R. W. | Montreal Annex | 1905 |
| Geggie, H. J. G. | Beauport, Que. | 1911 |
| Gemmill, E. W. | Almonte, Ont. | 1889 |
| Gendron, Thomas | St. Raymond, Que. | 1800 |
| George, J. D. | Verona, N.Y., | 1901 |
| Gibson, G. M. | 166 State St., Brooklyn, N.Y. | 1904 |
| Gibson, R. | | 1904 |
| Gibson, R. J. | Sault Ste Marie, Ont. | 1891 |
| Gibson, W. B. | Huntington, N.Y. | 1878 |
| Gilday, A. L. C., B.A. | Montreal | 1900 |
| Gilday, F. W. | Montreal | 1897 |
| Gillespie, J. H. | Morrisburg, Ont. | 1911 |
| Gillies, B. W. D. | Vancouver, B.C. | 1898 |
| Gillies, G. E. | Teeswater, Ont. | 1906 |
| Gillis, E. G. | Indian River, P.E.I. | 1899 |
| Gillis, J. E. | West Somerville, Mass | 1904 |
| Gillis, J. H. | Matapedia, Que. | 1905 |
| Gillis, J. J., B.A. | Miscouche, P.E.I. | 1909 |
| Gillis, S. H. | Indian River, P.E.I. | 1910 |
| Gilmour, C. R. | Brockville, O. | 1903 |
| Gilmour, W. N. | Brockville, Ont. | 1910 |
| Gilroy, J. R. | Springhill, N.S. | 1904 |

| | | |
|---|---|---|
| Girdlestone, C. W., B.A. | Riverside, Cal. | 1892 |
| Girdwood, Gilbert P. | Montreal | 1865 |
| Girvan, R. G. | Rexton, N.B. | 1907 |
| Gladman, E. A. | Fulton, N.Y. | 1898 |
| Gladman, G. J. | 102 W. 64th St., New York. | 1886 |
| Gleason, J. H. | 967 Elm St., Manchester, N.H. | 1895 |
| Glen, C. W. E. | Chambly, Q. | 1858 |
| Glendenning, R. T. | Manchester, Mass. | 1892 |
| Gliddon, W. O.. B. A. | Ottawa, Ont. | 1911 |
| Godfrey, Abraham C. | Freemantle, Southampton, Eng. | 1865 |
| Godin, Joseph | Holyoke, Mass. | 1861 |
| Goff, H. N., B.A. | San Diego, Cal. | 1893 |
| Goforth, Franklin | | 1863 |
| Goltman, A. | 612 Lexington Ave., New York City, N.Y. | 1896 |
| Goodall, J. R., B.A. | Montreal | 1901 |
| Gooding, Chs. E. | St. Philip, Barbadoes, W.I. | 1884 |
| Goodwin, B. E. | Amherst, N.S. | 1908 |
| Goodwin, W. W. | 39 Princeton St., East Boston, Mass. | 1883 |
| Gordon, A. H. | Montreal | 1899 |
| Gordon, C. M. | Kasubazua, Que. | 1881 |
| Gordon, G. S. | Dominion Trust Bdg., Vancouver, B.C. | 1897 |
| Gordon, Robert | Arlington, Ill | 1868 |
| Gormely, J. C. | Chrysler, Ont. | 1904 |
| Gorrel, A. S. | Regina, Sask. | 1890 |
| Gorrel, C. W. F. | Ottawa | 1894 |
| Gourlay, H. B., B.A. | 619 Grandville St., Vancouver, B.C. | 1906 |
| Gourley, T. A. | Cayuga, O. | 1897 |
| Grace, N. | Tunbridge Wells, Eng. | 1898 |
| Graham, Charles E. | Hull, Q. | 1865 |
| Graham, D. W. | Swift Current, Sask. | 1907 |
| Graham, George A. | 4414 Troost Ave., Kansas City, Mo. | 1884 |
| Graham, J. | Pembroke, Ont. | 1880 |
| Graham, Kenneth D. | Ottawa, Ont. | 1875 |
| Graham, R. W. | | 1904 |
| Graham, W. C. R. | Heuvelton, N.Y. | 1892 |
| Grant, D. | Bourne, Oreg. | 1896 |
| Grant, H. A. | Potsdam, N.Y. | 1892 |
| Grant, Sir James A. | Ottawa, Ont. | 1854 |
| Grant, James A., Jr., B.A. | Ottawa | 1882 |
| Grant, J. H. Y. | Falls View, Ont. | 1886 |
| Grant, J. P. | New Glasgow, N.S. | 1895 |
| Grant, N. P. | Woodstock, N.B. | 1904 |
| Graves, C. A. | Tillsonburg, Ont. | 1910 |
| Gray, C. F. A. | Montreal | 1899 |
| Gray, E. H., B.A., B.D. | Montreal West, Que. | 1911 |
| Gray, H. R. D., B.A. | Montreal | 1900 |

| | | |
|---|---|---|
| Gray, John S. | Winnipeg, Man. | 1876 |
| Gray, Thomas | St. Mary's O. | 1879 |
| Gray, James | Helena, Mont. | 1883 |
| Gray, W. E. | Milltown, N.B. | 1007 |
| Gray, W. L. | Pembroke, O. | 1881 |
| Green, F. W. | Cranbrook, B.C. | 1898 |
| Green, F. W. | Pictou, N.S. | 1902 |
| Green, T. B., B.A. | New Westminster, B.C. | 1906 |
| Greene, E. | Wakefield, Que. | 1899 |
| Greenleese, J. C. | | 1909 |
| Greenwood, F. S. | St. Catharines, O. | 1878 |
| Greenwood, W. T. | St. Catharines, Ont. | 1904 |
| Greer, T. A. | | 1876 |
| Grier, R. T. | Dundalk, Ont. | 1907 |
| Grimmer, R. D. | St. Andrew's, N.B. | 1905 |
| Groves, George H. | Carp, O. | 1879 |
| Groves, Osler M. | Kinburn, Ont. | 1906 |
| Groves, W. | Quyon, Q. | 1886 |
| Guerin, James J. E. | Montreal | 1878 |
| Gun, A. | Durham, O. | 1895 |
| Gunter, F. B., B.A. | 134 Chestnut St., Chelsea, Mass. | 1893 |
| Gurd, C. C., B.A. | Montreal | 1897 |
| Gurd, David F. | Montreal | 1879 |
| Gurd, F. B., B.A. | Tulane University, New Orleans, La. | 1906 |
| Gustin, Smith | Bay City, Mich | 1885 |
| Hackett, F. J. (ad. eun.) | Montreal, Que. | 1906 |
| Hackett J. F., B.A. | 1161 N. Main St., Waterbury, Conn | 1906 |
| Haight, M. | 96 Avenue Road, Toronto | 1893 |
| Haldimand, A. W. | Montreal | 1888 |
| Hale, G. C. | London, Ont. | 1909 |
| Hall, A. G. | Ormstown, Que. | 1887 |
| Hall, A. R. | St. Paul, Minn. | 1900 |
| Hall, George (ad eun.) | Montreal | 1906 |
| Hall, M. K. | La Grande, Ore. | 1893 |
| Hall, W. | Brampton, Ont. | 1887 |
| Hallett, E. O. | Weymouth Bridge, N.S. | 1885 |
| Halliday, James T. | Peterboro, O. | 1866 |
| Halliday, J. LeR. | Wellington, Kansas | 1902 |
| Hamilton, C. D. | Cornwall, Ont. | 1911 |
| Hamilton, Charles S. | | 1868 |
| Hamilton, G. | | 1894 |
| Hamilton, H. D., B.A. | Montreal | 1890 |
| Hamilton, R. | Bright, O. | 1895 |
| Hamilton, W. F. | Whitney, Ont. | 1909 |
| Hammond, J. F. | | 1906 |
| Hammond, J. H. | | 1869 |
| Hand, W. T. | Whitney, Ont. | 1909 |
| Hanington, D. P. | Wemar, B.C. | 1906 |
| Hanington, J. P. | Montreal | 1894 |

| | | |
|---|---|---|
| Hanington, J. W. B. | Victoria, B.C. | 1905 |
| Hanna, A. E. | Perth, O. | 1885 |
| Hanna, Franklin | Brantford, O. | 1879 |
| Hannington, E. B. C. | Victoria, B.C. | 1875 |
| Hanover, William | Seattle, Wash. | 1875 |
| Hansen, N. C., M.A. | 168 Wash Ave., Portland, Me. | 1903 |
| Hanvey, C. B. H. | | 1883 |
| Harding, E. S. | Montreal | 1897 |
| Hardisty, R. H. M., B.A. | Montreal | 1903 |
| Hardy, A. N. | Tryon, P. E. I. | 1900 |
| Harkin, F. McD. | Marquette, Mich. | 1885 |
| Harkin, Henry | 1 Queen St. North, Liverpool, Eng. | 1867 |
| Hargrave, I. L. | Montreal, Q. | 1895 |
| Harkness, Jno. | Irena, O. | 1862 |
| Harley, R. J. O. | Cheshire, Eng. | 1901 |
| Harris, L. C. | Moncton, N.B. | 1902 |
| Harris, N. M. | Knowlton, Que. | 1890 |
| Harrison, J. D., M.A. | Edmonton, Alta. | 1891 |
| Harrison, L. L., B.A. | Maccan, N.S. | 1904 |
| Harrisson, H. J. | Montreal, Que. | 1883 |
| Hart, E. C. | Victoria, B.C. | 1894 |
| Hart, F. W., B.A. | Indian Head, Sask. | 1902 |
| Hart, George C. | | 1879 |
| Hartin, G. | Nelson, B.C. | 1896 |
| Harvey, F. C. | | 1897 |
| Harvey, F. W., B.A. | Montreal | 1898 |
| Harvey, William A. | Harriston, Ont. | 1874 |
| Harvie, J. B. | 6 Clinton Place, Troy, N.Y. | 1881 |
| Harvie, S. K., B.A. | 208 Hastings St. E., Vancouver, B.C. | 1902 |
| Harwood, R. de L. | Montreal, Q. | 1895 |
| Haszard, C. F. L. | Calgary, Alta. | 1900 |
| Hattie, W. H. | Nova Scotia Hospital, Halifax, N.S. | 1891 |
| Havey, H. B., B.A. | Digby, N.S. | 1911 |
| Hawkins, A. C. | Halifax, N.S. | 1885 |
| Hawkins, Z., B.A. | Sussex, N.B. | 1907 |
| Hayd, H. E. | 493 Delaware Ave., Buffalo, N.Y. | 1881 |
| Hayden, E. W. | Cobourg, O. | 1897 |
| Hayes, John | | 1890 |
| Hayes, J., B.A. | Nelson, N.B. | 1891 |
| Haythorne, T. J., B.A. | 27 Princes St., Liverpool | 1886 |
| Heagerty, J. J. | Montreal, Que. | 1905 |
| Healy, D. J. | Lexington, Ky. | 1896 |
| Healy, J. J. | Smiths Falls, Ont. | 1907 |
| Heard, C. DeW. | | 1880 |
| Hebert, P. Zotique | 14 York Place, Portman Sq., London, Eng. | 1872 |
| Henderson, And. | Scanlon, Minn. | 1880 |
| Henderson, E. H., B.A. | Mansonville, Que. | 1905 |

| | | |
|---|---|---|
| Henderson, J. A. | Montreal | 1893 |
| Henderson, W. | Qu'Appelle, Sask. | 1894 |
| Henry, C. K. P. | Westmount, Q. | 1900 |
| Henry, C. M. | Yorkton, Sask. | 1902 |
| Henry, E. G., B.A. | Lennoxville, Que. | 1905 |
| Henry, Wm. G. | 1320 Jefferson Ave., Detroit, Mich. | 1883 |
| Henwood, Alfred J. | Brantford, Ont. | 1879 |
| Hepburn, H. H. | Edmonton, Alta. | 1910 |
| Hepburn, W. G. | Stratford, Ont. | 1910 |
| Hepworth, W. G. | Vancouver, B.C. | 1894 |
| Herbert, T. A. | Barbados, W. I. | 1910 |
| Hetherington, Harry | Hatley, Q. | 1872 |
| Hewetson, S. W. | Pincher Creek, Alta. | 1893 |
| Hewitt, T. J. | Montreal. | 1906 |
| Hicks, C. R., B.A. | Upper Dorchester, N.B. | 1910 |
| Hiebert, G. | 430 Edmonton St., Winnipeg, Man. | 1900 |
| Higgins, C. P. | Fernie, B.C. | 1899 |
| Hill, R. C., M.D. | Great Falls, Mont. | 1906 |
| Hill, W. H. P. | Montreal | 1900 |
| Hillman, O. S. | Boston City Hospital. | 1906 |
| Hoare, C. W. | Walkerville, O. | 1888 |
| Hockridge, Thos. G. | 26 Lloyd Square, London, W.C. England. | 1874 |
| Hogan, E. V., B.A. | Weymouth, N.S. | 1896 |
| Hogan, F. J. | Tisdale, Sask. | 1904 |
| Hogg, D. H. | London, O. | 1892 |
| Hogle, J. H. | Vancouver, B.C. | 1906 |
| Holbrook, C. E. | Ogdensburg, N.Y. | 1908 |
| Holden, C. P. | Caledonia, Minn. | 1906 |
| Holden, D. B., B.A. | Victoria, B.C. | 1891 |
| Hollbrook, R. E. | Ninga, Man. | 1907 |
| Hollingsworth, J. E. | Avon, S. Dak. | 1902 |
| Holman, W. L., B.A. | Summerside, P.E.I. | 1907 |
| Holmes, A. D. | Detroit, Mich. | 1889 |
| Hope, J. T. | Alexandria, O. | 1901 |
| Hopkins, Alfred J. | Pittsburg, Penn. | 1883 |
| Hopkins, H. J. | Pittsburg, Penn. | 1888 |
| Horsfall, F. L., B.A. | Cobb Bldg., Seattle, Wash. | 1903 |
| Hotchkiss, E. A. | Collinsville, Conn. | 1904 |
| Houston, D. W. | 44 2nd Street, Troy, N.Y. | 1881 |
| Houston, J. C. | | 1898 |
| Howard, A. C. P., B.A. | Iowa City, Iowa. | 1901 |
| Howard, R. J. B., B.A. | London, Eng. | 1882 |
| Howell, W. B. | Montreal | 1896 |
| Howey, W. H. | Sudbury, O. | 1878 |
| Howitt, H. O. | Guelph, Ont. | 1904 |
| Howitt, Wm. H. | Toronto, O. | 1870 |
| Howland, Francis L. | Huntsville, O. | 1867 |
| Howlett, G. P. | Ottawa, Ont. | 1906 |
| Hubbard, O. H. | Gilsum, N.H. | 1888 |
| Hudson, H. P. | Hanley, Tenn. | 1898 |
| Hughes, P. H. | Leamington, O. | 1886 |
| Hughson, E. R. | Blenheim, O. | 1896 |

| | | |
|---|---|---|
| Hume, G. M. | Sherbrooke, Que. | 1905 |
| Hume, G. W. L. | Sherbrooke, Q. | 1898 |
| Hume, William L | Leeds, Q. | 1875 |
| Hunt Henry | Toronto | 1876 |
| Hunt, Lewis G., B.A. | Sheffield, Eng. | 1871 |
| Hunter, A. W. | Vancouver, B.C. | 1906 |
| Hunter, E. N. McL. | Hudson, Mass. | 1901 |
| Hunter, J. D. | 3 Upper Bedford Place, London, W. C. Eng. | 1907 |
| Hunter, T. V. | East Millinocket, Me. | 1906 |
| Hunter, W. B. | Vanceboro, Me. | 1908 |
| Hurdman, H. T. | Bryson, Q. | 1885 |
| Hurlburt, George W. | Thornbury, Ont. | 1859 |
| Hurlburt, Richard W. | Mitchell, O. | 1873 |
| Hutchinson, John A. | Westmount, Que. | 1878 |
| Hutchinson, J. W. | Montreal, Q. | 1904 |
| Hutchison, G. W. | Escott, Ont. | 1910 |
| Hutchison, J. Alex. | Montreal | 1884 |
| Huycke, A. H. | | 1907 |
| Hyatt, E. A., B.Sc. | St. Albans, Vt. | 1902 |
| Hynes, W. T. | Lacombe, Alta | 1903 |
| Imrie, A. W. | 410 Woodward Ave., Detroit. | 1879 |
| Inksetter, D. G. | | 1880 |
| Inksetter, W. E. | | 1890 |
| Irven, J. J. | Montreal. | 1911 |
| Irvine, A. D. | Westmount, Q. | 1896 |
| Irvine, James C. | | 1866 |
| Irvine, R. T. | 12 Maple Place, Ossining, N.Y. | 1885 |
| Irwin, A. F. | 48 Syndicate Block, Minneapolis, Minn. | 1890 |
| Irwin, F. | Olaa, Hawaii | 1902 |
| Irwin, J. Louis | 244 Erie St., Chicago, Ill. | 1879 |
| Jack, Du Vernet | Wallaceburg, Ont. | 1892 |
| Jack, J. McP. (ad eun.), | Montreal | 1897 |
| Jackson, F. S. | Montreal | 1899 |
| Jackson G. F. | Haileybury, Ont. | 1901 |
| Jackson, Wm. Fred | Brockville, Ont. | 1873 |
| Jacques, H. M. | Halifax, N.S. | 1894 |
| Jakes, R. W. | San Francisco, Cal. | 1893 |
| Jameson, Thos. | 346 West Ave., Rochester, N.Y. | 1892 |
| Jamieson, Chas. J. | Winnipeg, Man. | 1879 |
| Jamieson, W. H. | Montreal | 1893 |
| Jamieson, W. R. | Foreon Coab, Mexico | 1898 |
| Jardine, J. | Summerside, P.E.I. | 1900 |
| Jenkins, W. M. | Hampstead, N.B. | 1908 |
| Jento, C. P. | Tacoma, Wash. | 1890 |
| Johnson, A. L., B.A. | | 1909 |
| Johnson, B. F. | Norton, N.B. | 1906 |
| Johnson, C. H. | Austin, Minn. | 1884 |
| Johnson, G. R., B.A. | Banff, Alta. | 1902 |

| | | |
|---|---|---|
| Johnson, H. D. | Charlottetown, P.E.I. | 1885 |
| Johnson, J. A., B.A. | Quebec, Q. | 1902 |
| Johnson, James B. | London, Eng. | 1876 |
| Johnson, J. B. | Spring Valley, Minn. | 1883 |
| Johnson, J. G. W., M.A. | 15 Forrington Sq. London, Eng. | 1904 |
| Johnson, J. W. | Formosa, Kansas | 1887 |
| Johnson, R. de L., B.A. | Richmond, Que. | 1901 |
| Johnston, A. | Cookshire, Q. | 1901 |
| Johnston, A. | Montreal | 1892 |
| Johnston, F. E. L. | Delaware, O. | 1896 |
| Johnston, J. A. | Tignish, P.E.I. | 1897 |
| Johnston, J. L. | Janetville, O. | 1901 |
| Johnston, W. | 206 Norfolk St., Dorchester, Mass. | 1897 |
| Jones, Charles R. | Hatley, Que. | 1874 |
| Jones, D. C. | | 1899 |
| Jones, F. B. | Montreal | 1899 |
| Jones, H. A., B.A. | Sydney, C.B. | 1900 |
| Jones, J. H. | New Westminster, B.C. | 1901 |
| Jones, Jonathan C. | | 1865 |
| Jones, N. C., B.A. | London, Eng. | 1902 |
| Jones, Wm. Justus | Prescott, Ont. | 1856 |
| Josephs, G. E. | Pembroke, O. | 1881 |
| Jost, A. C., B.A. | Guysboro, N.S. | 1897 |
| Joughin, J. L. | Montreal | 1906 |
| Judson, A. H. | Mallorytown, Ont. | 1904 |
| Kaine, W. J., B.A. | Brattleboro, Vt. | 1911 |
| Kannary, E. LeR., B.A. | 490 Endicott St., St. Paul Minn. | 1900 |
| Kaufmann, J. | Montreal | 1908 |
| Kearney, G. H. | Renfrew, Ont. | 1911 |
| Kearns, J. F. | La Junta, Colo | 1894 |
| Keating, B. H. | | 1900 |
| Keating, H. L. T. | Montreal, Que. | 1900 |
| Keay, Arnold | Gary, Indiana. | 1910 |
| Keay, Thos. | Hazel Hill, N.S. | 1907 |
| Keddy, O. B., B.A. | Milton, N.S. | 1906 |
| Kee, D. N. | Gladstone, Mich. | 1890 |
| Keefer, Wm. N., B.A. | | 1869 |
| Keeler, Thomas | | 1859 |
| Keenan, C. B. | Montreal | 1897 |
| Keith, H. W. | Elko, N.B. | 1896 |
| Keir, E. J. | Saratoga St., E. Boston, Mass. | 1891 |
| Kelley, J. W. | Detroit, Mich. | 1908 |
| Kelly, A. E. | Meaford, Ont. | 1906 |
| Kelly, C. I. | West Flamboro, Ont. | 1891 |
| Kelly, C. M., B.A. | St. John, N.B. | 1909 |
| Kelly, Clinton Wayne | Louisville, Ky. | 1867 |
| Kelly, J. K. | Almonte, Ont. | 1896 |
| Kelly, Thomas | So. Omaha, Neb. | 1873 |
| Kemp, H. D. | St. Agathe, Que. | 1890 |
| Kemp, H. G. | 38 Avenue Rd., Toronto | 1896 |

| | | |
|---|---|---|
| Kendall, A. L. | | 1901 |
| Kendrick, W. N. | Spring Valley, Minn. | 1896 |
| Kennedy, A. H. N. | McLeod, Alta. | 1908 |
| Kennedy, R. A., B.A. | Ottawa | 1886 |
| Kenney, F. L., B.A. | St. John, N.B. | 1888 |
| Kenny, R. W. | 165 Hargrave St. Winnipeg, Man. | 1903 |
| Ker, R. H., B.A. | Vancouver Club, Vancouver, B.C. | 1901 |
| Kerfoot, H. W. | Brockville, Ont. | 1906 |
| Kerr, H. H. | 1742 N. St., Washington D.C. | 1904 |
| Kerr, N. | 869 La Salle Ave., Chicago, Ill. | 1889 |
| Kerr, R. A. | | 1897 |
| Kerry, R. A. | Montreal | 1895 |
| Keys, M. J. | | 1904 |
| King, H. S. | 1010 Brush St., Detroit, Mich. | 1892 |
| King, J. H. | Cranbrook, B.C. | 1895 |
| King, Reginald A. D. | Compton, Que. | 1868 |
| King, R., B.A. | | 1903 |
| King, S. S. | | 1905 |
| King, Wm. M. H. | St. Sylvestre, Q. | 1859 |
| Kinghorn, H. McL., B.A. | Saranac Lake, N.Y. | 1894 |
| Kinloch, J. A. | Kernwood Hotel, Chicago, Ill. | 1886 |
| Kirby, H. S. | | 1897 |
| Kirby, W. P. P., B.A. | | 1908 |
| Kirkpatrick, E. A. | Halifax, N.S. | 1888 |
| Kissane, J. W. | Norwood, N.Y. | 1903 |
| Klock, Robert H. | Shawville, Q. | 1882 |
| Klotz, Oskar | Pittsburg, Pa. | 1906 |
| Knapp, H. T., B.A. | Sackville, N.B. | 1895 |
| Laberge, Ed. | St. Philomene, Q. | 1856 |
| Lafferty, A. M. | | 1887 |
| Lafleur, H. A., B.A. | Montreal | 1887 |
| Laidley, I. H. | Montreal | 1897 |
| Laing, A. L. | | 1897 |
| Lake, W. E. | Ridgetown, Ont. | 1907 |
| Lamb, J. A. | Kalispell, Mont. | 1898 |
| Lamb, W. V. | Camrose, Alta. | 1903 |
| Lambert, E. M. | Ottawa, Ont. | 1891 |
| Lambly, W. D. | Montreal | 1896 |
| Lambly, W. O. | Cookshire, Q. | 1894 |
| Landor, Thomas H. | 317 W. 7th St., Canton, Ohio. | 1884 |
| Landry, A. R., B.Sc. | Dorchester, N.B. | 1907 |
| Lane, John A. | Syracuse, N.Y. | 1877 |
| Lang, A. A. J. | Sanbourn, N.D. | 1898 |
| Lang, C. L. | Mallorytown, Ont. | 1876 |
| Lang, F. W. | Marine City, Mich. | 1892 |
| Lang, W. A. | | 1881 |

| | | |
|---|---|---|
| Lang, W. M. | Ridgeville, Ohio | 1888 |
| Langley, A. F. | | 1892 |
| Langsford, Wm., M.D. | Oklahoma City, Okla. | 1908 |
| Lannin, G. E. J. | Hamilton, Ont. | 1907 |
| Lannin, J. C. J. | South Mountain, Ont. | 1909 |
| Lathern, J. S. | | 1883 |
| Lauchland, L. C., B.A. | Dundas, Ont. | 1904 |
| Lauder, Edward | 1021 Prospect St., Cleveland, Ohio. | 1896 |
| Laurie, E., B.A. | Montreal | 1903 |
| Laurin, Edgar J. | | 1881 |
| Lauterman, M. | Montreal | 1895 |
| Lavers, P. L., B.A. | Georgetown, P.E.I. | 1910 |
| Law, Robert | Ottawa | 1899 |
| Law, William K. | Coleraine, Irel | 1877 |
| Lawford, John B. | 99 Harley Street, Cavendish Sq., London, W. | 1879 |
| Lawlor, F. E. | Dartmouth, N.S. | 1901 |
| Lawrence, J. W. | 25 Washington St., Malden, Mass. | 1893 |
| Lawrence, W. A. | Lisbon. N.Y. | 1909 |
| Lawson, G. C. | Military Hosp., Quebec, Que. | 1909 |
| Learmonth, G. E., B.A. | High River, Alberta | 1901 |
| Leclerc, George | | 1851 |
| Lees, F. W. | Perth, Ont. | 1908 |
| Legault, J. H. | Ottawa, Ont. | 1911 |
| Legget, T. H. | Ottawa, O. | 1901 |
| Leney, J. M., B.A. | Winnipeg. Man. | 1902 |
| Leslie, A. C. | Perley, Norman Co., Minn. | 1890 |
| Leslie, H. A. | Change Islands, Nfld. | 1905 |
| Leslie, P. C. | China | 1896 |
| Le Touzel, J. R. | Savanna la Mer, Jamaica, W.I. | 1897 |
| Levi, Ruben | | 1876 |
| Levy, A., B.A. | 67 Wimpole St., Cavendish Sq. London W., Eng. | 1899 |
| Lewin, A. A. | St. John, N.B. | 1890 |
| Lewis, J. F. | Hillsborough, N.B. | 1894 |
| Leys, W. M. | Alexandra Hosp., Montreal | 1909 |
| Lidstone, A. E. | | 1902 |
| Lightstone, Hyman, (ad eundem) | Montreal | 1910 |
| Likely, D. S., B.A. | St. John, N.B. | 1905 |
| Lincoln, W. A. | Calgary, Alta. | 1904 |
| Lindsay, L. M. | Montreal, Que. | 1909 |
| Lindsay, W. | Montpelier, Vt. | 1893 |
| Lineham, D. M. | Dauphin, Man. | 1899 |
| Lippiatt, H. T. | Shawville, Que. | 1904 |
| Little, H. M., B.A. | Montreal | 1901 |
| Lockhart, F. A. L. | Montreal | 1900 |
| Lockary, J. L. | St. Stephen, N.B. | 1897 |
| Locke, E. E., B.A. | Westmount, Que. | 1907 |
| Locke, J. A. | Irena, Ont. | 1910 |

| | | |
|---|---|---|
| Lockwood, A. L. | Westport, Ont. | 1910 |
| Loeb, A. A. | 347 Littleton Ave., Newark, N.J. | 1899 |
| Logan, Robert | Iona, Mich. | 1880 |
| Loggie, W. S. | Chatham, N.B. | 1905 |
| Logie, A. E. | Millbridge, Me. | 1899 |
| Logie, F. G. | Chatham, N.B. | 1907 |
| Logie, H. B., B.A. | Chatham, N.B. | 1910 |
| Lomas, A. J. | | 1902 |
| Lomer, T. A., B.A. | Montreal, Que. | 1906 |
| London, J. F. | Wickham, N.B. | 1908 |
| Long, C. B. | Whitehall, N.Y. | 1898 |
| Long, C. H. | 15 E. Washington St., Chicago | 1888 |
| Longley, Edmund | | 1866 |
| Loring, J. Brown | 103 State St., Chicago, Ill. | 1883 |
| Losier, A. J. | Tracadie, N.B. | 1904 |
| Loucks, W. F. | Campbellford, O. | 1887 |
| Love, A. | Sydney Mines, N.S. | 1891 |
| Love, R. H. | Carleton Place, O. | 1899 |
| Lovering, J. E. | Lethbridge, Alta. | 1908 |
| Lovering, W. T. | 219 Lumber Exchange, Seattle, Wash. | 1891 |
| Lovett, William | Ayr, O. | 1870 |
| Low, D. | Regina, Sask. | 1889 |
| Lunam, H., B.A. | Campbellton, N.B. | 1881 |
| Lundie, J. A., B.A. | Montreal | 1903 |
| Lunney, T. H. | St. John, N.B. | 1901 |
| Lyford, Chas. C. | 817 3rd Ave. S., Minneapolis, Minn. | 1879 |
| Lyman, W. S., Ph.B. | 292 Somerset St., Ottawa, Ont. | 1903 |
| Lynch, A. L. | | 1903 |
| Lynch, J. G. B. | Brandon, Man. | 1908 |
| Lynch, W. W. | Sherbrooke, Q. | 1898 |
| Lyon, Arthur | Shawville, Q. | 1861 |
| Lyon, G. R. D. | Castor, Alta. | 1906 |
| Lyster, H. F. | Hull, Q. | 1897 |
| | | |
| MacArthur, R. S. | Summerside, P.E.I. | 1907 |
| Macaulay, A. E. | St. John, N.B. | 1910 |
| MacCallum, D. G. | Sherbrooke, Que. | 1906 |
| MacCallum, E. C. | Londesborough, Ont. | 1897 |
| MacCarthy, F. H. | | 1902 |
| MacCarthy, G. S. | Ottawa | 1894 |
| Macartney, F. W. | Gaspe Basin, Q. | 1896 |
| Macaulay, H. R. | Hong Kong, China | 1898 |
| Macaulay, J. F. | Grand Manan, N.B. | 1898 |
| Macaulay, J. J. T. | River Dennis, N.S. | 1896 |
| MacCordick, A. H. | General Hosp., Montreal | 1908 |
| Macrae, D. D., (ad eundem), | Montreal | 1910 |
| MacDermot, J. H. | 714 Harris St., Vancouver, B.C. | 1905 |
| Macdonald, A. | Vankleek Hill, Ont. | 1889 |

| | | |
|---|---|---|
| MacDonald, Angus | St. Peter St., St. Paul, Minn. | 1863 |
| Macdonald, A. A., B.A. | Souris, P.E.I. | 1902 |
| Macdonald, A. D. | Kalispell, Mont. | 1887 |
| Macdonald, D. J. | Sydney, N.S. | 1897 |
| MacDonald, J. A. | 294 Portage Ave., Winnipeg, Man. | 1906 |
| Macdonald, John A. | Montreal | 1880 |
| Macdonald, J. S. | 163 Dorchester St., So. Boston, Mass | 1899 |
| Macdonald, M. S. | Marbleton, Que. | 1890 |
| MacDonald, P. A. | Alma, N.B. | 1906 |
| Macdonald, Roderick Aeneas | | 1874 |
| Macdonald, R. S. J., B.A. | Bailey's Brook, N.S. | 1903 |
| Macdonald, R. T. E. | Sutton, Que. | 1881 |
| MacDonell, D. F., B.A. | Port Hood, N.S. | 1908 |
| MacFarlane, Wm. | | 1869 |
| MacIntosh, L. DeC. | Hartland, N.B. | 1904 |
| MacIntosh, Robert | Rapid City, Man. | 1863 |
| Mackay, D. S. | Portage Ave., Winnipeg, Man. | 1901 |
| Mackay, M., B.A. | Montreal St., Sherbrooke Que. | 1901 |
| Mackay, M. E. | Paynton, Sask. | 1905 |
| MacKenzie, A. B. | Lashburn, Sask. | 1904 |
| Mackenzie, C. A. | | 1899 |
| Mackenzie, K. A. J. | Portland, Oregon | 1881 |
| Mackenzie, S. D. | Sarnia, O. | 1901 |
| Mackenzie, W. A. | Wood Islands, P.E.I. | 1903 |
| MacKid, L. S. | Calgary, Alta. | 1904 |
| MacKinnon, G. E. L. | Alexandria, Ont. | 1902 |
| MacKinnon, I. W. | 8 Water St., Liverpool, Eng. | 1903 |
| MacKinnon, T. H. | 600 Leonard St., Brooklyn, N.Y. | 1889 |
| MacIntosh, A. E. | Pugwash, N.S. | 1910 |
| MacLachlan, W. W. G. | Pittsburg Univ., Pittsburg, Pa. | 1907 |
| MacLaren, A. H., B.A. | Calgary, Alta. | 1902 |
| MacLeod, J. M. | Hunter River, P.E.I. | 1906 |
| MacLean, Archibald | Sarnia, Ont. | 1867 |
| MacLean, C. G. G. | Hazelton, B.C. | 1909 |
| MacLean, J. D. | Phœnix, B.C. | 1905 |
| MacLean, J. N. | Saginaw, Mich. | 1898 |
| MacLeay, A. A., B.A. | Danville, Q. | 1895 |
| MacMarin, D. R. | Great Northern Hotel, Chicago, Ill. | 1888 |
| Macmillan, H. | Vancouver, B.C. | 1910 |
| Macmillan, S. | Isaacs Harbor, N.S. | 1910 |
| MacMillan, W. J. P. | Kinkora, P.E.I. | 1908 |
| MacNab, N. A. | Montreal, Que. | 1907 |
| MacNaughton, G. K., B.A. | Cumberland, B.C. | 1906 |
| MacNaughton, J. A. | Moncton, N.B. | 1902 |
| Macneill, J. W. L. | | 1901 |

| | | |
|---|---|---|
| MacNeill, Alex. | Summerside, P.E.I. | 1883 |
| Macneill, A. L. H. | Stanley Bridge, P.E.I. | 1910 |
| Macphail, Andrew, B.A. | Montreal | 1891 |
| MacPhee, J. A., B.A. | Charlottetown, P.E.I. | 1910 |
| Macpherson, C. | St. John's, Nfld. | 1901 |
| Macpherson, D. | | 1896 |
| MacTaggart, D. D., B.A. | Montreal | 1896 |
| McAlister, W. J. | | 1910 |
| McAllister, D. H., B.A. | Belle Isle, N.B. | 1898 |
| McArthur, A. W. | Westmount, Que. | 1896 |
| McArthur, J. | Winnipeg, Man. | 1885 |
| McArthur, John A. | Maryland Club, Baltimore, Md. | 1879 |
| McArthur, Robert D. | 1164 Dearborn Ave., Chicago, Ill. | 1867 |
| McAuley, A. G. | Montreal | 1900 |
| McBain, John | Montreal | 1874 |
| McBride, W. P. | Kensington, P.E.I. | 1909 |
| McBurney, A., B.A. | Sawyerville, Que. | 1910 |
| McCabe, J. A., B.A. | Windsor Mills, Que. | 1898 |
| McCallum, J. S. | Lying in Hospital, New York | 1909 |
| McCann, A. E. A. | 53 Central Street, Lowell, Mass. | 1892 |
| McCann, J. H. | South Framingham, Mass | 1907 |
| McCarthy, J. G. | Montreal | 1888 |
| McCarthy, W. | 1520 W. Congress Street, Chicago | 1867 |
| McClure, W., B.A. | Wei Huifu, Honan, China | 1884 |
| McCollum, E. P. | | 1886 |
| McCombe, J. | Dorval, Que. | 1899 |
| McConnell, John B. | Montreal | 1873 |
| McConnell, R. E., B.A. | | 1900 |
| McCorkill, K. K. C. | East Farnham, Q. | 1882 |
| McCormack, N. | Renfrew, Ont. | 1885 |
| McCowen, G. R. | St. John's, Nfld. | 1907 |
| McCracken, W. A. | Cornwall, Ont. | 1910 |
| McCrea, J. | Fulda, Minn. | 1894 |
| McCrimmon, A. A. | St. Thomas, Ont. | 1891 |
| McCrimmon, Donald A. | Lucknow, Ont. | 1860 |
| McCrimmon, John | Kincardine, Ont. | 1878 |
| McCrimmon, Milton | 29 Augusta St., Hamilton, Ont. | 1878 |
| McCuaig, W. J. | Indiana Ave., Chicago | 1886 |
| McCulloch, J. M. | 312 Charlotte St., Peterborough, Ont. | 1903 |
| McCully, Oscar J., M.A. | St. John, N.B. | 1879 |
| McCurdy, T. | Coaticook, Que. | 1889 |
| McDiarmid, C. A. | Vancouver, B.C. | 1903 |
| McDiarmid, James | Hensall, Ont. | 1873 |
| McDiarmid, W. B. | Maxville, Ont. | 1900 |
| McDonald, A. L. | Alexandria, Ont. | 1887 |
| McDonald, Alex. | | 1883 |
| McDonald, A. R. | Boyd, Wis. | 1882 |

| | | |
|---|---|---|
| McDonald, D. D. | Alexandria, Ont. | 1887 |
| McDonald, E. E. | 174 W. 58th St., New York | 1901 |
| McDonald, G. | Calgary, Alta. | 1889 |
| McDonald, H. J. | Butte City, Mont. | 1885 |
| McDonald, H. K. | Lunenburg, N.S. | 1896 |
| McDonald, H. N. | 102 Central Ave., Minneapolis, Minn. | 1889 |
| McDonald, J. A., B.A. | Kongmova, South China via Hong Kong | 1905 |
| McDonald, J. C. | Peak's Station, P.E.I. | 1905 |
| McDonald, J. N. | Shelburne, N.S. | 1908 |
| McDonald, P. A. | Alexandria, Ont. | 1889 |
| McDonald, P. A., B.A. | Strathcona, Alta. | 1903 |
| McDonald, R. C. | Fremont, Neb. | 1880 |
| McDonald, R. H. | Overlook Hosp., Summit, N.J. | 1908 |
| McDonald, S. H., B.A. | St. John, N.B. | 1903 |
| McDonall, W. F. | Montreal | 1900 |
| McDonnell, A. E. J., B.A. | | 1888 |
| McDougall, A. | Kippen, Ont. | 1900 |
| McDougall, D. S. | Russell, Ont. | 1888 |
| McDougall, G. P. | O'Leary, P.E.I. | 1897 |
| McDougall, J. G. | Amherst, N.S. | 1897 |
| McDougall, Peter A. | Ottawa | 1864 |
| McEachern, I. W. T. | Bawlf, Alta. | 1903 |
| McEachern, M. T. | | 1910 |
| McEachran, W. | | 1880 |
| McElroy, A. S. | 722 Bank St., Ottawa | 1897 |
| McEown, F. | | 1890 |
| McEwen, D. | Dunvegan, Ont. | 1896 |
| McEwen, E. H. | Vancouver, B.C. | 1906 |
| McEwen, J. R., B.A. | Huntingdon, Que. | 1903 |
| McEwen, S. C. | | 1909 |
| McFarlane, M. A. | Carleton, Place, Ont. | 1888 |
| McGannon, M. C. | Nashville, Tenn. | 1885 |
| McGannon, T. G. | 226 Merrimac St., Lowell, Mass. | 1886 |
| McGarry, James | Niagara Falls So., Ont. | 1858 |
| McGeachy, William | Iona, Ont. | 1867 |
| McGibbon, D. | Edmonton, Alta. | 1902 |
| McGibbon, J. A. | Forest, Ont. | 1908 |
| McGibbon, R. S. | Montreal. | 1911 |
| McGibbon, S. | Mocorito, Sinaloa, Mexico | 1902 |
| McGowan, Henry W. | Knowlton, Q. | 1867 |
| McGrath, F. C. | Bloomfield, P.E.I. | 1903 |
| McGrath, J. P., B.L. | Tignish, P.E.I. | 1908 |
| McGrath, R. H. | Fredericton, N.B. | 1902 |
| McGuigan, J. D. | Emerald, P.E.I. | 1903 |
| McIlmoyl, Henry A. | Ogdensburg, N.Y. | 1876 |
| McInerney, James P., M.A. | St. John, N.B. | 1884 |
| McInnes, Walter J. | Vittoria, Ont. | 1865 |
| McIntosh, Donald J. | Vankleek Hill, Ont. | 1870 |
| McIntosh, D. H. | Carleton Place, Ont. | 1889 |
| McIntosh G. J. | Dalkeith, Ont. | 1905 |

| | | |
|---|---|---|
| McIntosh, H. H. | Vancouver, B.C. | 1903 |
| McIntosh, J. A. | Vankleek Hill, Ont. | 1903 |
| McIntosh, L. Y. | Apple Hill, Ont. | 1894 |
| McIntosh, Robt. | Newcastle, Ont. | 1863 |
| McIntyre, J. D. | Montague, P.E.I. | 1899 |
| McKay, H. H. | New Glasgow, N.S. | 1890 |
| McKay, John | Woodville, Ont. | 1869 |
| McKay, J. G. | Big Timber, Mont. | 1899 |
| McKay, J. M. | | 1886 |
| McKay, R. B., B.A. | Montreal | 1893 |
| McKay, W. H. | | 1908 |
| McKechnie, D. W. | Montreal, Q. | 1903 |
| McKechnie, R. E. | Box 533, Vancouver, B.C. | 1890 |
| McKechnie, W. C. | | 1899 |
| McKee, G. L. | Danville, Que. | 1890 |
| McKee, S. H., B.A. | Montreal | 1900 |
| McKelcan, George Lloyd | Hamilton, Ont. | 1860 |
| McKenty, F. | Montreal, Que. | 1904 |
| McKenty, J. E. | 17 Pine St., Waltham, Mass. | 1892 |
| McKenzie, B. E., B.A. | 12 Bloor St. W., Toronto | 1880 |
| McKenzie, J. T. | | 1884 |
| McKenzie, J. B., B.A. | Loggieville, N.B. | 1902 |
| McKenzie, L. F. | Newark, N. J. | 1894 |
| McKenzie, R. Tait | Univ. of Penn., Philadelphia, Pa. | 1892 |
| McKenzie, S. R. | Montreal | 1893 |
| McKinley, John K. | Bristol, Q. | 1878 |
| McKinnon, A. I. | Havelock, Nebraska | 1892 |
| McKinnon, F. W. | 74 Elgin St., Ottawa, Ont. | 1897 |
| McKinnon, G. W. | Arcata, Calif | 1888 |
| McKinnon, H. | Ashland, Wis. | 1887 |
| McKinnon, N. | | 1895 |
| McLachlan, D. C. | Greenland, N.H. | 1904 |
| McLaren, D. D. | Calgary, Alta. | 1903 |
| McLaren, D. C., B.A. | | 1880 |
| McLaren, Peter | 108 Albany Ave., Toronto, Ont. | 1861 |
| McLaren, Peter | Ormstown, Que. | 1872 |
| McLaren, R. W. | St. Raphaels, Ont. | 1898 |
| McLaughlin, E. M. | Winona, Minn. | 1903 |
| McLaughlin, J. A. | Medical Block, Minneapolis, Minn. | 1894 |
| McLean, C. M. | Mafekin, S. Africa | 1894 |
| McLean, J. R., B.A. | Sault Ste. Marie, Ont. | 1898 |
| McLean, J. W. | N. Sydney, C.B., N.S. | 1883 |
| McLean, Thos. N. | Fergus Falls, Minn. | 1882 |
| McLellan, A. A. | Summerside, P.E.I. | 1889 |
| McLennan, A. L. | Lancaster, Ont. | 1907 |
| McLennan, D. | Martintown, Ont. | 1888 |
| McLennan, D. A. | Great Falls, Montana | 1897 |
| McLennan, K. | Alexandria, Ont. | 1893 |
| McLennan, P. A. | | 1898 |
| McLeod, J. | Box 532, Regina, Sask. | 1898 |

| | | |
|---|---|---|
| McLeod, W. A. | Finch, Ont. | 1905 |
| McManus, H. D. | Washburn, Me. | 1890 |
| McMeekin, J. W. | Saginaw, Mich. | 1885 |
| McMicking, A. E. T. | Victoria, B.C. | 1905 |
| McMicking, George | | 1851 |
| McMillan, G. A. | Elgin, Neb. | 1890 |
| McMillan, J. A. | Finch, Ont. | 1906 |
| McMillan, Louis J. A. | Mansonville, Que. | 1860 |
| McMurray, A. L. | | 1898 |
| McMurry, S. O., B.A. | Montreal, Que. | 1905 |
| McMurtry, W. C. | Port Hope, Ont. | 1905 |
| McNally, D. A. | Biddeford, Me. | 1899 |
| McNally, G. J. | Berwick, N.S. | 1895 |
| McNally, H. H. | Fredericton, N.B. | 1892 |
| McNally, W. P. | 131 State St., Bangor, Me. | 1897 |
| McNaughton, F. M. A., B.A. | Westmount, Que. | 1899 |
| McNaughton, M. W. | Moosomin, Sask. | 1910 |
| McNaughton, W. B. | St. Raphael West, Ont. | 1905 |
| McNee, Stuart, | Ripley, N.Y. | 1879 |
| McNeill, J. F. | Summerside, P.E.I. | 1902 |
| McPherson, T., B.A. | Stratford, Ont. | 1903 |
| McPhee, T. J. | Courtenay, B.C. | 1907 |
| McQuillen James | Marquette, Mich. | 1874 |
| McRae, J. D. | Glennevis, Ont. | 1897 |
| McRae, W. R. | Sydney, C.B. | 1897 |
| McSorley, H. S. | Michel, B.C. | 1900 |
| McTaggart, Alexander | 75 Yonge St., Toronto, Ont. | 1869 |
| Maas, Rudolph J. | Houghton, Mich. | 1880 |
| Mabee, O. R. Phm. B. | 419 Bloor St., Toronto, Ont. | 1906 |
| Maby, W. J. | Mechanicsville, N.Y. | 1903 |
| Mader, A. I. | Halifax, N.S. | 1891 |
| Magee, C. F. | Carp, Ont. | 1903 |
| Maher, J. J. E. | 221 W. 23rd St., New York | 1883 |
| Main, C. G. | St. Stephen, N.B. | 1891 |
| Mair, A. W. | Portage du Fort, Q. | 1892 |
| Mair, W. L. | Staffa, Ont. | 1906 |
| Major, Geo. W., B.A. (Ret) | England | 1871 |
| Malcolm, D. C. | St. John, N.B. | 1906 |
| Malcolm, John Rolph | Winchester, Ont. | 1861 |
| Malcolm, R. B. | St. John, N.B. | 1910 |
| Malloch, N. | | 1897 |
| Manchester, G. H. | New Westminster, B.C. | 1894 |
| Manchester, J. W. | Winnipeg, Man. | 1902 |
| Manning, G. M. | Barbados, B.W.I. | 1909 |
| Marcuse, O., B.A. | Montreal. | 1911 |
| Margolese, O. | Gunn Block, Winnipeg, Man. | 1906 |
| Markson, S. M. | 539 12th St., Milwaukee | 1904 |
| Marr, Walker H. | | 1859 |
| Martel, Ovide | 308 Pittsburg Bdg., St. Paul, Minn. | 1883 |
| Martin, A. A. | Pierce, Nebr. | 1908 |

| | | |
|---|---|---|
| Martin, C. F., B.A. | Montreal | 1892 |
| Martin, E. A. | Kemptville, Ont. | 1901 |
| Martin, H. E. | | 1902 |
| Martin, J. C. | | 1904 |
| Martin, J. M. | 238 Warren St., Boston, Mass. | 1889 |
| Martin, L. W. | Granby, Que. | 1900 |
| Martin, M. McL. | The Westminster, Copley Sq., Boston, Mass. | 1891 |
| Martin, R. H. | 44 So. Gratiot Ave., Mt. Clemens, Mich. | 1896 |
| Martin, S. H. | Waterloo, Que. | 1892 |
| Mason, E. G. | Calgary, Alta. | 1902 |
| Mason, F. C. | Massena Springs, N.Y. | 1902 |
| Mason, J. H. | Lachute, Que. | 1905 |
| Mason, J. L. D., B.A. | Montreal | 1902 |
| Mason, R. | State Inst. for Feeble-Minded Children, Syracuse, N.Y. | 1896 |
| Massiah, W. B. H. | Barbadoes, W.I. | 1892 |
| Masten, C. H. | 1085 Main St., Worcester, Mass. | 1893 |
| Matheson, J. R. | Prince Albert, Sask. | 1893 |
| Mathewson, G. H., B.A. | Montreal | 1894 |
| Mathieson, C. S. | Harrington, P.E.I. | 1889 |
| Mathieson, John H. | St. Mary's, Ont. | 1871 |
| Mattice, Rich. I. | | 1875 |
| May, G. F. | County Asylum, Durham, Eng. | 1895 |
| Mavety, J. LeR., B.A. | Montreal. | 1911 |
| May, L. W., L.R.C.P.S. (Edin.) | Strathcona, Alta | 1902 |
| Meade, C. J. | | 1892 |
| Meahan, J. C. | Bathurst, N.B. | 1884 |
| Meakins, J. C. | Montreal | 1904 |
| Meane, John | Staff Surgeon - Major Army, 98 Ebury Street, London, S.W., Eng. | 1860 |
| Meek, Jas. A. | 20 W. 43rd St. New York, N.Y. | 1875 |
| Meighen, W. A. | Perth, Ont. | 1901 |
| Meikle, W. F. | Lansdowne, Ont. | 1892 |
| Meindl, A. G. | Somerset Block, Winnipeg, Man. | 1903 |
| Menzies, John B. | Lachute, Que. | 1879 |
| Menzies, J. E. | 33 Elmwood Ave., Providence, R.I. | 1902 |
| Mercer, T. C. | Chilliwack, B.C. | 1906 |
| Merrick, J. H. | | 1895 |
| Mersereau, H. C. | Richibucto, N.B. | 1905 |
| Metcalfe, F. T. | 329 Franklin St., Buffalo, N.Y. | 1888 |
| Mewburn, F. H. | Lethbridge, Alta. | 1881 |
| Michaud, J. N. | Bathurst, N.B. | 1906 |
| Midgley, R. J. | Omaha, Neb. | 1897 |

| | | |
|---|---|---|
| Mignault, Henri A. | Montreal | 1860 |
| Mignault, L. D., B.A. | Montreal | 1880 |
| Milburn, J. A. | Peterborough, Ont. | 1897 |
| Miller, A. P. | Chatham, Ont. | 1905 |
| Miller, Clarence | Stellarton, N.S. | 1904 |
| Miller, G. H. S. | Stanley, N. Dak. | 1901 |
| Miller, R. L. | Montreal, Que. | 1909 |
| Miller, S. | Battleford, Sask. | 1901 |
| Miller, V. L., B.A. | Bear River, N.S. | 1904 |
| Mills, Thos. W., M.A. | 45 Warrington Crescent, Maida Vale, Lon., Eng. | 1878 |
| Miner, Frank L. | Abercorn, Que. | 1877 |
| Mitchel, Fred H. | Kilworth Bridge, Ont. | 1871 |
| Mitchell, I. E., B.A. | Poklo, South China via Canton | 1903 |
| Mitchell, R. W., M.A. | St. Lambert, Que. | 1896 |
| Mitchell, W. | Needlaw Heights, Mass. | 1894 |
| Moffatt, C. F., B.A. | Montreal, Que. | 1905 |
| Moffatt, Geo. | Inkerman, Ont. | 1902 |
| Moffatt, John E. | 1 Palmerston Villas, Rathmines, Dublin, Ireland | 1862 |
| Moffatt, R. D. | | 1852 |
| Moffatt, W. A. | Sherbrooke, Que. | 1896 |
| Mohr, F. W. C. | 273 Wilbrod St., Ottawa | 1905 |
| Moles, E. B. | Brockville, Ont. | 1896 |
| Molson, Wm. A. | Montreal, Que. | 1874 |
| Monahan, R. J. | Montreal, Que. | 1906 |
| Montgomery, C. H. | Trust and Savings Bdg., 6th and Spring St., Los Angeles, Cal. | 1903 |
| Moodie, A. R. | Perth, Ont. | 1910 |
| Mooney, M. J. | Scotstown Que. | 1898 |
| Moore, Charles S. | London, Ont. | 1874 |
| Moore, Jehiel T. | 406 Masonic Bdg., Minneapolis, Minn. | 1874 |
| Moore, Joseph | | 1852 |
| Moore, J. C., D.V.S. | Rockburn, Que. | 1901 |
| Moore, J. M. | 4702 G. Boulevard, Chicago, Ill. | 1893 |
| Morehouse, O. E. | Upper Keswick, N.B. | 1889 |
| Morgan, A. D. | | 1901 |
| Morgan, J. D., B.A. | Montreal, Que. | 1907 |
| Morgan, V. H. | River Beaudette, Que. | 1887 |
| Morin, J. H. G., B.A. | St. Hyacinthe, Que. | 1908 |
| Morphy, A. G. | Lachine, Que. | 1890 |
| Morris, C. H., B.A. | Windsor, N.S. | 1897 |
| Morris, C. S. | Wallace, N.S. | 1903 |
| Morris, O. | Vernon, B.C. | 1890 |
| Morrison, A. S. | Montreal | 1900 |
| Morrison, J. F. | Copleston, Ont. | 1902 |
| Morrow, C. | Metcalfe, Ont. | 1888 |
| Morrow, J. J. | Arthur, Ont. | 1900 |
| Morrow, W. S. | Montreal | 1891 |
| Morse, D. G. | Lawrencetown, N.S. | 1910 |

| | | |
|---|---|---|
| Morse, L. H., B.A. | Digby, N.S. | 1897 |
| Morse, L. R., B.A. | Lawrencetown, N.S. | 1896 |
| Morse, W. R., B.A. | Suifu, via Chungking, China | 1902 |
| Moses, H. C. | Caledonia, Ont. | 1908 |
| Mothersill, G. S. | Winnipeg, Man. | 1902 |
| Mowatt, W., B.A. | Walhalla, N.D. | 1896 |
| Muckey, F. S. | | 1883 |
| Muckleston, H. S., M.A. | Montreal, Que. | 1905 |
| Muir, W. L., B.A. | Truro, N.S. | 1907 |
| Muirhead, D. A. | Carleton Place, Ont. | 1889 |
| Mullaly, E. J. | Montreal | 1901 |
| Mulligan, E. A. | Maniwaki, Que. | 1890 |
| Mulligan, J. W. | Fort Coulonge, Que. | 1905 |
| Mullin, J. J. | | 1906 |
| Mundie, G. S., B.A. | Montreal | 1910 |
| Munroe, A. R. | Langham, Alta. | 1906 |
| Munroe, F. D. | Moose Creek, Ont. | 1906 |
| Munroe, H. B., B.A. | 875 Western Ave., Lynn, Mass. | 1903 |
| Munroe, H. E. | Saskatoon, Sask. | 1903 |
| Munro, Alexander | Montreal | 1876 |
| Munro, J. A. | Pugwash, N.S. | 1905 |
| Munro, J. H. | 1720 Hobart Bdg., Los Angeles, Cal. | 1903 |
| Munro, James T. | 1720 Hobart Bdg., Los Angeles, Cal. | 1872 |
| Murphy, E. F. | 1451 Tremont St., Boston, Mass. | 1899 |
| Murphy, G. B., B.A. | 626 Granville St., Vancouver, B.C. | 1908 |
| Murphy, H. H., B.A. | | 1904 |
| Murray, D. | Campbellton, N.B. | 1886 |
| Murray, D. A. | River John, N.S. | 1889 |
| Murray, J. M. | Marmora, Ont. | 1909 |
| Murray, J. S. | | 1903 |
| Murray, L. M. | Halifax, N.S. | 1900 |
| Murray, M. W. | New Decatur, Alabama | 1890 |
| Mussen, A. T. | Montreal | 1900 |
| Myers, D. A. | Prentiss, Wis. | 1898 |
| Nagle, F. W. | Montreal, Que. | 1908 |
| Nagle, S. M. | Almonte, Ont. | 1904 |
| Nash, A. C. | Ogdensburg, N.Y. | 1899 |
| Nathan, D. | Norristown, Pa. | 1906 |
| Neill, R. W. | Aylmer, Que. | 1895 |
| Nelles, J. M. | Canton, Ill. | 1875 |
| Nelles, T. R. B. | 404 Abbott St., Vancouver, B.C. | 1905 |
| Nelson, J. S. | City View, Ont. | 1903 |
| Nelson, Wolfred D. E. | Astor House, New York, N.Y. | 1884 |
| Nelson, W. E. | Montreal | 1903 |
| Newcombe, W. E. | Ferguson, B.C. | 1901 |

| | | |
|---|---|---|
| Nicholls, A. G., M.A. | Montreal | 1894 |
| Nichol Wm. R. | Montreal. | 1872 |
| Nicholson, F. J., B.A. | | 1899 |
| Noble, C. T. | Sutton West, Ont. | 1890 |
| Noble, E. C. | Boston State Hosp., Boston, Mass. | 1907 |
| Nordbye, F. A. | Rolette, N. Dak. | 1908 |
| Norton, F. A. | Savanah la Mer, Jamaica, W.I. | 1907 |
| Norman, T. J. | Edmonton, Alta. | 1887 |
| Nutter, J. A., B.A. | Montreal, Que. | 1904 |
| O'Brien, C. W., B.A. | Wyandotte, Mich. | 1903 |
| O'Brien, J. F. | Fall River, Mass. | 1910 |
| O'Brien, J. R., B.A. | Ottawa | 1899 |
| O'Brien, Thos. J. | | 1882 |
| O'Brien, T. D. P. | | 1862 |
| O'Brien, Timothy | Wahpeton, N. Dak. | 1884 |
| O'Callaghan, R. H. L. | Montreal | 1910 |
| O'Callaghan, T. A., B.A. | 44 Turnbull St., Worcester, Mass. | 1880 |
| O'Connor, E. J. | Montreal, Que. | 1894 |
| O'Dea, James J. | 64 Beach, Stapleton, N.Y. | 1859 |
| O'Keefe, Henry | Minto, N.D. | 1882 |
| Ogden, C. L., B.A. | 10 Dana Street, Cambridge, Mass. | 1894 |
| Ogden, H. V., B.A. | 141 Wisconsin St., Milwaukee, Wis. | 1882 |
| Ogilvy, C., B.A. | 62 East 34th St., New York | 1898 |
| O'Leary, James | St. Pascal, Que. | 1866 |
| O'Leary, Patrick | | 1850 |
| Oliver, A. J. | Granby, Que. | 1890 |
| Oliver, W. | Ormstown, Que. | 1895 |
| O'Neill, J. M. | Massena, N.Y. | 1903 |
| Oppenheimer, S. S. | Greenwood, B.C. | 1898 |
| O'Reilly, Charles | 52 College Street, Toronto, | 1867 |
| Orr, A. E. | Montreal | 1888 |
| Orr, J. E. | Detroit, Mich. | 1888 |
| Ortenberg, S. | Montreal | 1908 |
| Orton, T. H. | Guelph, Ont. | 1886 |
| Osborne, A. B. | Hamilton, Ont. | 1886 |
| O'Shaughnessy, L. J. | Oldham, N.S. | 1898 |
| Osler, Sir William, LL.D. | Oxford, Eng. | 1872 |
| O'Sullivan, M. T. | Glace Bay, N.S. | 1901 |
| Oulton, M. A., M.A. | Jolicure, N.B. | 1907 |
| Outhouse, J. S., B.A. | Shelburne Falls, Mass. | 1898 |
| Outwater, S. W. (ad eundem), | Phillipsburg, Que. | 1910 |
| Ower, J. J., B.A. | General Hosp., Montreal. | 1909 |
| Paintin, A. C. | Mansonville, Que. | 1900 |
| Palmer, A. J. | Buckingham, Que. | 1897 |
| Palmer, G. F. | 51 Exmouth St., Clerkenwell, London, Eng. | 1885 |
| Palmer, G. H. | Dorchester, N.B. | 1902 |

| | | |
|---|---|---|
| Palmer, J. E., B.A. | 1405 14th St. W., Calgary, Alta. | 1909 |
| Palmer, Loran L. | 40 College St., Toronto | 1867 |
| Pallister, W. H. | 714 Clarke Bdg., Seattle, Wash. | 1897 |
| Park, A. W. | Cochrane, Alta. | 1904 |
| Park, J. E. | New Glasgow, N.S. | 1910 |
| Park, P. C. | Durham, Ont. | 1888 |
| Parke, G. H. | 10 Palace Street, Quebec | 1891 |
| Parris, N. D. | Highlands, Barbadoes, W.I. | 1903 |
| Parsons, W. H. | Harbour Grace, Nfld. | 1906 |
| Patch, F. S.. B.A. | Montreal | 1903 |
| Patrick, D. | Westmount, Que. | 1896 |
| Paterson, A., B.A. | | 1901 |
| Paterson, F. P. | Trust Bdg. Vancouver, B.C. | 1898 |
| Paterson, James | Winnipeg, Man. | 1864 |
| Paterson, J. H. | Almonte, Ont. | 1909 |
| Paterson, L. | St. John's, Nfld. | 1892 |
| Paterson, R. C., B.A. | St. Agathe, Que. | 1902 |
| Paterson, W. F., B.A. | Belt, Mont. | 1900 |
| Patterson, R. U. | Medical Corps, U.S. Army, Washington, D.C. | 1898 |
| Patterson, W. J., B.A. | Montreal | 1906 |
| Pattee, F. J. | Hawkesbury, Ont. | 1900 |
| Pattee, Richard P. | Hawkesbury, Ont. | 1874 |
| Patten, L. A. | Chilliwack, B.C. | 1910 |
| Patton, Edward K. | | 1867 |
| Patton, H. M. | Montreal, Que. | 1890 |
| Patton, J. W. T. | Truro, N.S. | 1900 |
| Patton, W. D. | Box 1532, Vancouver, B.C. | 1909 |
| Pavey, H. L. | Montreal, Que. | 1903 |
| Payne, R. H. | Van Horne, Iowa | 1900 |
| Peabody, H. S. | Mansonville, Que. | 1910 |
| Peake, E. L., B.A. | 174 Elm St., Oshkosh, Wis. | 1900 |
| Peake, J. P. | Oromocto, Sunbury Co., N.B. | 1892 |
| Pearman, H. V. | Halifax, N.S. | 1888 |
| Peat, G. B. | Andover, N.B. | 1906 |
| Peele, Sydney | New Westminster, B.C. | 1910 |
| Pegg, Charles H. | | 1867 |
| Peltier, H. G. | Fort William, Ont. | 1907 |
| Penner, E., B.A. | Gretna, Man. | 1901 |
| Penney, L. T. W. | New Germany, N.S. | 1907 |
| Pennoyer, A. R. | Montreal | 1897 |
| Peppers, H. W., B.A. | Centreville, N.B. | 1899 |
| Perrault, Victor H. | | 1852 |
| Perrier, John | | 1868 |
| Perrigard, E. N. | Montreal | 1908 |
| Perrigo, James, M.A. | Montreal | 1870 |
| Peters, C. A. | Montreal | 1898 |
| Peters, H. LeB., B.A. | Russell Sage Inst., Blackwell's Id., N.Y. | 1907 |

| | | |
|---|---|---|
| Peters, O. R. | Annapolis, Royal, N.S. | 1902 |
| Petersky, S. | 1542 Haro St., Vancouver, B.C. | 1906 |
| Peterson, G. R. | Saskatoon, Sask. | 1903 |
| Phelan, E. D. | 18 South St., Newark, N.J. | 1892 |
| Phelan, J. F. R. C. | Waterloo, Que. | 1865 |
| Phelps, S. E. | West Sullivan, Me. | 1899 |
| Phillip, W. S. | Los Angeles, Cal. | 1889 |
| Phippen, S. S. C. | Owosso, Mich. | 1883 |
| Pickard, L. N. | Old Perlican, Nfld. | 1902 |
| Pinet, Alex. R. | St. Laurent, Que. | 1864 |
| Pinsonneault, B. | Chicago, Ill. | 1880 |
| Piper, J. O., A.B. | Bingham, Me. | 1910 |
| Pittis, H. | Plainfield, N.J. | 1901 |
| Pomery, L. E. Mc. | 152 E. Utica St., Buffalo, N.Y. | 1886 |
| Poole, Alf. | Vancouver, B.C. | 1886 |
| Poole, H. E. | Brier Hill, N.Y. | 1880 |
| Pope, E. L., B.A. | Winnipeg, Man. | 1900 |
| Porteous, Wm. | 812 Pillsbury Bdg., Minneapolis, Minn. | 1884 |
| Porter, A. S. | Powassan, Ont. | 1900 |
| Pothier, J. C. | New Bedford, Mass. | 1887 |
| Potts, J. Mc. | Stirling, Ont. | 1888 |
| Poussette, A. Courthrope | Sarnia, Ont. | 1860 |
| Powell, E. H. | | 1885 |
| Powell, Israel Wood | Victoria, B.C. | 1860 |
| Powell, R. E., B.A. | Sackville, N.B. | 1908 |
| Powell, Robert H. W. | 180 Cooper St., Ottawa | 1876 |
| Powers, Lafontaine B. | Port Hope, Ont. | 1867 |
| Powers, M., B.A. | Rockland, Ont. | 1898 |
| Pratt, C. M. | St. John, N.B. | 1902 |
| Prendergast, A. R., B.A. | Montreal, Que. | 1905 |
| Prescott, A. H. | Queensbury, N.B. | 1896 |
| Preston, C. E. | 202 Elgin St., Ottawa, Ont. | 1904 |
| Price, B. S. | 65 Central Park W., New York | 1895 |
| Price, J. | Campbellton, N.B. | 1904 |
| Pringle, A. F. | Northfield, Minn. | 1880 |
| Pritchard, J., B.A. | North Wakefield, Que. | 1894 |
| Prosser, W. O. | Le Mars, Ply. Co., Iowa | 1874 |
| Proudfoot, Alex. | 831 Fort St., Victoria, B.C. | 1869 |
| Proudfoot, John S. | | 1868 |
| Proulx, Phileas | | 1844 |
| Pruyn, W. G., B.A. | 1a Calle Lopez 3, Mexico City, Mexico. | 1905 |
| Puddington, B. A. | Grand Falls, N.B. | 1903 |
| Pulford, F. W. | 1473 Woodward Ave., Detroit, Mich. | 1809 |
| Purdy, C. E. | 466 Swan St., Buffalo, N.Y. | 1908 |
| Quain, B. P. | Madrid, N.Y. | 1904 |
| Quinn, F. P. | Ottawa, Ont. | 1907 |

| | | |
|---|---|---|
| Quirk, E. L. | Aylmer, Que. | 1888 |
| Rabbinovitch, M. | Montreal, Que. | 1907 |
| Rajotte, E. C. F. | | 1899 |
| Ralph, A. J., Phm.B. | Montreal, Que. | 1906 |
| Rankin, A. C. | Siam | 1904 |
| Raphael, H. McL. | | 1910 |
| Raymond, Alf. | Seattle, Wash. | 1886 |
| Read, E. S., B.A. | Clarenceville, Que. | 1909 |
| Read, G. C., B.A. | | 1908 |
| Read, Herbert H. | Halifax, N.S. | 1861 |
| Reavely, E. | Shandleigh, Alta. | 1887 |
| Reddick, Robert | Winchester, Ont. | 1874 |
| Reddy, Herbert L., B.A. | Montreal | 1876 |
| Redon, L. H., B.A. | Amer. Bank Bldg, Seattle, Wash. | 1901 |
| Reed, E. H. | Whitman, Mass. | 1910 |
| Reeves, J. | Eganville, Ont. | 1894 |
| Reford, L. L., B.A. | Montreal | 1904 |
| Rehfuss, W. N., B.A. | Bridgewater, N.S. | 1903 |
| Reid, Alex. Peter | Middleton, N.S. | 1858 |
| Reid, C. M., M.D. | Jamaica, B W.I. | 1911 |
| Reid, J. T. | Montreal | 1890 |
| Reilly, W. H. | Winnipeg, Man. | 1906 |
| Reilly, W. G. | Montreal | 1895 |
| Renner, W. Scott | 341 Linwood Ave., Buffalo, N.Y. | 1884 |
| Richard, F. A., B.A. | Moncton, N.B. | 1900 |
| Richard, Marcel | Manchester, N.H. | 1864 |
| Richards, B. A. | 6 Gibbs St., Rochester, N.Y. | 1901 |
| Richards, E. T. F. | Harvard Med. School, Boston, Mass. | 1905 |
| Richardson, C. A. | East Jefferson, Me. | 1904 |
| Richardson, C. A. C., B.A. | Somerville, Mass. | 1904 |
| Richardson, G. C. | Ottawa, Ont. | 1887 |
| Richardson, H. J. | Canmore, Alta. | 1894 |
| Richardson, J. R. | 100 State St., Chicago, Ill. | 1865 |
| Richardson, J. W. | Mountain, Ont. | 1910 |
| Richardson, R. W. | Lisbon, N.H. | 1909 |
| Rilance, C. D. | | 1906 |
| Rimer, F. E. | Dawson City, Yukon | 1894 |
| Riordan, B. L. | 73 Simcoe St., Toronto | 1880 |
| Risher, F. O., B.A. | Shell Lake, Wis. | 1906 |
| Ritchie, C. A., B.A. | 233 Vaughan St., Winnipeg, Man. | 1906 |
| Ritchie, C. F. P., B.A. | Montreal | 1902 |
| Ritchie, John L. | Queenstown, Cape Colony, South Africa | 1874 |
| Robbins, E. E. | Govan Station, via Strassburg, Sask. | 1906 |
| Robert, G. C. | 164 Walnut St., Holyoke, Mass. | 1897 |
| Roberts, A. B. | | 1902 |
| Roberts, J. | Hamilton, Ont. | 1901 |

| | | |
|---|---|---|
| Roberts, M. C. | Brigus, Nfld. | 1911 |
| Robertson, A. A., B.A. | Montreal | 1894 |
| Robertson, A. G. | | 1888 |
| Robertson, A. M. | Vancouver, B.C. | 1885 |
| Robertson, A. R. | Victoria, B.C. | 1905 |
| Robertson, B. W. | Keswick Ridge, N.B. | 1905 |
| Robertson, C. G. | Sandusky, Mich. | 1901 |
| Robertson, David | Milton, Ont. | 1864 |
| Robertson, D. McD. | General Hospital, Ottawa, Ont. | 1898 |
| Robertson, E. A., B.A. | Hubbardson, Mich. | 1891 |
| Robertson, F. D., B.A. | Grand Rapids, Mich. | 1886 |
| Robertson, H. M. | Victoria, B.C. | 1897 |
| Robertson, James E. | Montague, P.E.I. | 1865 |
| Robertson, J. E. | Salt Lake City, Utah. | 1895 |
| Robertson, L. F., B.A. | Stratford, Ont. | 1901 |
| Robertson, Patrick | England | 1867 |
| Robertson, R. D. | Wetaskiwin, Alta. | 1901 |
| Robertson, T. F. | Brockville, Ont. | 1891 |
| Robertson, W. G. | | 1903 |
| Robertson, W. | Elora, Ont. | 1890 |
| Robertson, W. A. T. | Junction City, Kan. | 1896 |
| Robidoux, L. E., B.A. | Shediac, N.B. | 1901 |
| Robillard, Adolphe | 229 Stewart St., Ottawa | 1860 |
| Robins, G. D., B.A. | Montreal | 1896 |
| Robinson, B. E. | Orillia, Ont. | 1892 |
| Robinson, J. L. | Waco, Texas | 1904 |
| Robinson, R. C. | | 1907 |
| Robinson, Stephen J. | | 1876 |
| Robinson, T. A. | St. Marys, Ont. | 1910 |
| Robitaille, Louis | New Carlisle, Que. | 1860 |
| Rocheleau, W. C., B.A. | Woonsocket, R. I. | 1908 |
| Roddick, Thomas G. | Montreal | 1868 |
| Rogers, Amos | Ottawa | 1874 |
| Rogers, E. J. A. | 222 Colfax Ave., Denver, Col. | 1881 |
| Rogers, F. E. | | 1897 |
| Rogers, H. B. | Chemainus, B.C. | 1901 |
| Rogers, J. T., B.A. | Montreal | 1904 |
| Rogers, W. | 392 Main St., Winnipeg, Man. | 1892 |
| Rommel, E. | | 1905 |
| Rooney, R. F. | Auburn, Placer Co., Cal. | 1870 |
| Rorke, R. F. | Winnipeg, Man. | 1893 |
| Rose, W. O. | Nelson, B.C. | 1898 |
| Ross, C. E. | Westmount, Que. | 1908 |
| Ross, D. L. | Mansfield Depot, Ct. | 1887 |
| Ross, D. W. | Florenceville, N.B. | 1894 |
| Ross, G. T. | Montreal | 1880 |
| Ross, H. | Hazel Hill, N.S. | 1894 |
| Ross, H., B.A. | Montreal | 1908 |
| Ross, H. R. | Quebec, Que. | 1890 |
| Ross, James | Halifax, N.S. | 1890 |
| Ross, J. J., B.A. | Montreal | 1894 |

| | | |
|---|---|---|
| Ross, J. W. | Cohoes, N.Y. | 1881 |
| Ross, L. D. | Marendi 350, Santiago, Chili | 1884 |
| Ross, R. O., B.A. | Stanstead, Que. | 1896 |
| Ross, S. A. | Vancouver, B.C. | 1899 |
| Ross, W. K. | Hamilton, Ont. | 1883 |
| Rothwell, O. E., B.A. | Wolseley, Sask. | 1906 |
| Rowat, W. M. | Athelstane, Q. | 1886 |
| Rowell, G. B. | San Bernardino, Calif | 1884 |
| Rowley, W. E., B.A. | St. John, N.B. | 1900 |
| Roy, J. J. | Sydney, C.B., N.S. | 1897 |
| Rublee, O. E., B.A. | Bradwell, Sask. | 1907 |
| Rugg, Henry C. | Stanstead, Q. | 1865 |
| Russell, C. K., B.A. | Montreal | 1901 |
| Russel, E. M. | Springfield, Mass. | 1901 |
| Rutherford, A. E. | Millerton, Nfld. | 1900 |
| Rutherford, C. A. | Waddington, N.Y. | 1901 |
| Rutherford, Clarendon, M.A. | 1624 Fullerton Parkway, Chicago, Ill. | 1882 |
| Rutherford, M. C. | Rochester, N.Y. | 1879 |
| Rutherford, R. M. | Hawkesbury, Ont. | 1899 |
| Rutledge, And. J. | Moosomin, Sask. | 1883 |
| Ruttan, A. M. | Napanee, O. | 1880 |
| Ruttan, R. F., B.A. | Montreal | 1884 |
| Ryan, E. J. | St. Kitts, W.I. | 1896 |
| Ryan, G. H. W. | Vermillion, Ont. | 1899 |
| Ryan, J. P. | | 1896 |
| Ryan, W. T., B.A. | Doaktown, N.B. | 1901 |
| Ryan, L. McD., B.A. | | 1905 |
| Sanders, C. W. | Magrath, Alta. | 1901 |
| Saunders, E. H. | | 1895 |
| Saunders, W. E. | | 1903 |
| Savage, Thos. Y. | Thistletown, Ont. | 1854 |
| Sawyer, A. R. | Roslindale, Boston, Mass. | 1905 |
| Sawyer, C. D. | Lewiston, Me. | 1908 |
| Sayre, T. D. | | 1900 |
| Scane, J. W. | McGill College | 1893 |
| Scanlan, Harry | Montreal | 1898 |
| Schmidt, A. F. | Montreal | 1886 |
| Schwartz, H. J. | 44 E. 31st., New York | 1898 |
| Scott, G. O. | Ottawa, Ont. | 1910 |
| Scott, J. B. | Hull, Que. | 1909 |
| Scott, J. F. | | 1899 |
| Scott, John G. | 236 E. Elgin St., Ottawa | 1879 |
| Scott, J. M. | Philadelphia, Penn. | 1887 |
| Scott, Stephen A. | | 1854 |
| Scott, W. | Montreal | 1903 |
| Scott, W. H. | Edmonton, Alta. | 1907 |
| Scott, W. J., B.A. | Changteho, Homan, China | 1905 |
| Scott, W. T. | | 1897 |
| Scott, W. H. | | 1894 |
| Scrimger, F. A. C., B.A. | Montreal | 1905 |
| Seager, Francis R. | Brigden, Ont. | 1870 |
| Secord, E. R. | Brantford, Ont. | 1900 |
| Secord, J. H. | Sackville, N.B. | 1896 |

| | | |
|---|---|---|
| Secord, Levi | Brantford, Ont. | 1876 |
| Secord, W. H. | Brantford, Ont. | 1903 |
| Seifert, F. W., B.A. | Quebec, Que. | 1905 |
| Seguin, J. W. A. | Rigaud, Que. | 1893 |
| Sellery, A. C. | Long Beach, Cal. | 1904 |
| Semple, E. J., B.A. | Montreal | 1893 |
| Serviss, T. W. | James Flood Bdg., San Francisco, Cal. | 1881 |
| Seymour, M. M. | Regina, Sask. | 1879 |
| Sewell, Chas. Colin (ad eun.) | 68 St. Louis St., Quebec. | 1869 |
| Sankel, F. R., B.A. | Hubbard's Cove, N.S. | 1907 |
| Shanks, A. L. | Morden, Man. | 1889 |
| Shanks, Geo., B.A. | Montreal General Hospital | 1908 |
| Shanks, J. C. | Howick, Que. | 1881 |
| Shannon, W. L., B.A. | Vancouver, B.C. | 1911 |
| Sharp, C. E. | | 1909 |
| Sharp, Isaac C. | Montreal | 1885 |
| Sharp, Wm. J. (Ret.) | | 1872 |
| Sharpe, E. M. | Lacombe, Alberta | 1894 |
| Shaw, D. LeB. | 924 Congress St., Portland, Me. | 1903 |
| Shaw, G. F. | St. Andrews, Q. | 1893 |
| Shaw, H. S. | Montreal Annex, Q. | 1894 |
| Shaw, H. M. | Ashland, Ore | 1895 |
| Shaw, R. B. | Charlottetown, P.E.I. | 1896 |
| Shaw, R. McL., B.A. | Penobsquis, N.B. | 1906 |
| Shaw, T. P. | Montreal | 1893 |
| Shaw, W. F. | | 1879 |
| Shaver, W. H. | Madelia, Minn. | 1883 |
| Sheahan, J. J. | Haley's, Ont. | 1906 |
| Shearer, C. | Trinity College, Cambridge, Eng. | 1901 |
| Shearer, R. L. | Edmonton, Alta. | 1901 |
| Shephard, H. M. | London, Ont. | 1910 |
| Shepherd, Francis J. | Montreal | 1873 |
| Sherk, George | Cheapside, Ont. | 1865 |
| Shewan, D. R. | Westmount, Que. | 1908 |
| Shibley, J. L., B.A. | | 1885 |
| Shillington, A. T. | 305 Bank St., Ottawa, Ont. | 1894 |
| Shillington, R. N. W. | Ottawa, Ont. | 1910 |
| Ship, M. L., B.A. | Montreal | 1902 |
| Shirreffs, H. S. | Daysland, Alta. | 1907 |
| Shirriff, G. R. | Asheville, N.C. | 1891 |
| Shoebottom, Henry | | 1857 |
| Shore, R. A. A., B.A. | | 1899 |
| Shufelt, W. A. | 1730 Broadway, New York | 1881 |
| Sihler, G. A. | Litchfield, Ill. | 1883 |
| Sihler, G. A., Jr. | Litchfield, Ill | 1910 |
| Sihler, W. F. | Grand Harbor, N.D. | 1898 |
| Simpson, A. S. | Stanley Bridge, P.E.I. | 1901 |
| Simpson, J. S. | Maynard, Ont. | 1908 |
| Simpson, Thomas | 660 Sherbrooke St. W., Montreal | 1854 |
| Sims, H. A. | Montreal | 1904 |
| Sims, H. L. | | 1906 |

| | | |
|---|---|---|
| Sinclair, Coll. | Aylmer, Ont. | 1874 |
| Sinclair, D. R. | | 1884 |
| Sinclair, E. E. | Glenholme, N.S. | 1905 |
| Sinclair, F. D., B.A. | | 1910 |
| Sinclair, G. W. | Royal Victoria Hospital | 1907 |
| Sinclair, O. W. | Eureka, Cal. | 1891 |
| Skeels, A. A., B.A. | St. Albans, Vermont | 1891 |
| Slack, M. R. | Farnham, Que. | 1903 |
| Small, H. B. | 150 Laurier Ave. W., Ottawa | 1880 |
| Smellie, W. | Arundel, Que. | 1896 |
| Smiley, J. S. | Rawdon, Que. | 1880 |
| Smith, A. M., B.A. | Bellingham, Wash. | 1898 |
| Smith, B. S. | | 1909 |
| Smith, C. F. | St. Marys, Ont. | 1891 |
| Smith, C. M. | Red Mountain, Q. | 1904 |
| Smith, E. H. | 6730 Lafayette Ave., Chicago, Ill. | 1884 |
| Smith, Edward W., B.A. | West Meriden, Conn. | 1882 |
| Smith, H. | Payton Block, Spokane, Wash. | 1897 |
| Smith, R. A. | Ghent, Ohio | 1897 |
| Smith, R. E. G., B.A. | | 1896 |
| Smith, S. R. B. | San Francisco, Cal. | 1896 |
| Smith, T. H. | | 1891 |
| Smith, T. W. | Hawkesbury, Ont. | 1902 |
| Smith, W. A. | Willard, N.Y. | 1905 |
| Smith, W. A. de W. | New Westminster, B.C. | 1884 |
| Smith, W. D. | Edmonton, Alta. | 1890 |
| Smith, W. Harvey, M.A. | Canada Life Bdg., Winnipeg, Man. | 1892 |
| Smyth, H. E. | 376 John St., Bridgeport, Conn. | 1884 |
| Smyth, W. H., B.A. | Montreal, Q. | 1896 |
| Snider, Frederick S. | Simcoe, Ont. | 1876 |
| Snyder, A. E. W. | Lille, Alta. | 1901 |
| Soley, L. A. | | 1908 |
| Sparks, J. J. | Salina Cruz, Mexico | 1909 |
| Sparling, A. J. | Pembroke, Ont | 1891 |
| Spearman, F. S. | Whiting, Iowa | 1896 |
| Speer, Andrew M. | Danville, Q. | 1874 |
| Speer, R. B. | Danville, Que. | 1910 |
| Spier, J. R. | Montreal | 1891 |
| Sprinkle, J. A. | Montreal | 1888 |
| Stackhouse, O. C. S. | Lachute, Que. | 1896 |
| Stafford, Fred. I. | Twillingate, Nfld. | 1878 |
| Stanfield, H. M., B.A. | Truro, N.S. | 1897 |
| Stanton, George | Simcoe, Ont. | 1868 |
| Staples, C. A., B.A. | Stettler, Alta. | 1896 |
| Stark, George A. | Mandan, N. Dak. | 1872 |
| Starkey, T. A., (ad eundem) | Montreal | 1911 |
| Steeves, E. O. | Upper Sackville, N.B. | 1903 |
| Steeves, C. P., B.A. | Majestic Bldg., Denver, Colo. | 1896 |
| Stein, S. F. | Kemptville, Ont. | 1907 |

| | | |
|---|---|---|
| Stenning, W. A. | Coaticooke, Q. | 1894 |
| Stentaford, G. L. | Hearts Content, Nfld. | 1901 |
| Stephens, G. F. | | 1907 |
| Sterling, A. | Stanley, N.B. | 1897 |
| Stevens, Alex. D. | Dunham, Q. | 1857 |
| Stevenson, A. B. | New Glasgow, P.E.I. | 1907 |
| Stevenson, Hans. | Wakefield, Q. | 1880 |
| Stevenson, J., B.A. | | 1901 |
| Stevenson, J. M. | | 1856 |
| Stevenson, R. H. | Danville, Q. | 1900 |
| Stevenson, Robert A. | Toronto, Ont. | 1871 |
| Stewart, Alexander | 144 Westminster Ave., Toronto, Ont. | 1872 |
| Stewart, Alexander | Ormond, Ont. | 1909 |
| Stewart, Andrew | 1401 W. Adams St., Chicago | 1883 |
| Stewart, Archibald | South Indian, Ont. | 1910 |
| Stewart, A. D. | Montreal | 1888 |
| Stewart, C. A. | Dunvegan, Ont. | 1901 |
| Stewart, C. J. | Calgary, Alta. | 1901 |
| Stewart, J. A. | Tyne Valley, P.E.I. | 1904 |
| Steward, J. D. | Calgary, Alta. | 1911 |
| Stewart, J. O. | Cazaville, Q. | 1880 |
| Stewart, W. G., B.A. | Montreal | 1888 |
| Stirling, J. W. (ad eundem) | Montreal | 1911 |
| St. John, Leonard | 1516 Monroe Street, Chicago, Ill. | 1872 |
| Stockwell, H. K. | Munroe Gen'l. Hosp., Munroe, Wash. | 1902 |
| Stockwell, H. P. | Stanstead, Q. | 1898 |
| Storrs, A. | Scarisbrick, New Road, Southport, Eng. | 1876 |
| Stowell, F. E. | Worcester, Mass. | 1903 |
| Strong, N. W., B.A. | Cambria, Q. | 1903 |
| Strudwick, H. T. | Jamaica, B. W. I. | 1910 |
| Struthers, A. D. | Bedford, Q. | 1881 |
| Styles, W. A. L. | Montreal | 1905 |
| Sullivan, J. A. | Arnprior, Ont. | 1905 |
| Sutherland, J. A. | Springhill, N.S. | 1896 |
| Sutherland, G. R. | Leduc, Alta. | 1897 |
| Sutherland, R. H., B.A. | Springfield, N.S. | 1907 |
| Sutherland, Walter | Valleyfield, Que. | 1874 |
| Sutherland, W. H. | Revelstoke, B.C. | 1899 |
| Swift, T. A. | | 1906 |
| Switzer, Egerton R. | Salina, Ks. | 1865 |
| Taggart, E. A. | Ottawa, Ont. | 1903 |
| Tannenbaum, D., B.A. | Montreal, Que. | 1909 |
| Tanner, C. A. H. | Windsor Mills, Q. | 1904 |
| Tanton, E. T. | Summerside, P.E.I. | 1908 |
| Taplin, M. M. | 77 Munroe Ave., Rochester, N.Y. | 1892 |
| Taylor, D. A. | Londonderry, N.S. | 1901 |
| Taylor, G. O. | Plaster Rock, N.B. | 1907 |
| Taylor, J. N. | Golden, B.C. | 1892 |

| | | |
|---|---|---|
| Taylor, Sullivan A. | Gilmonton, N.H. | 1870 |
| Taylor, S. W., B.A. | Taylor Village, N.B. | 1911 |
| Taylor, T. H. | Cumberland Mills, Que. | 1909 |
| Taylor, W. H. | Havelock, N.B. | 1858 |
| Taylor, W. L. | | 1901 |
| Tees, F. J., B.A. | Montreal | 1905 |
| Tees, J., B.A. | | 1896 |
| Telford, R. | Vancouver, B.C. | 1898 |
| Temple, James Algernon | 40 St. George St., Toronto | 1864 |
| Tetreau, T. | No. Yakima, Wash. | 1896 |
| Tew, H. S. | England | 1864 |
| Thayer, Linus O. | Montreal | 1859 |
| Therien, Honore | | 1863 |
| Thomas, F. H. | Sand Coulee, Mont. | 1908 |
| Thomas, H. W. | Liverpool School of Tropical Medicine | 1897 |
| Thomas, J. E. | Montreal | 1897 |
| Thomas, S. B. | 251 Lincoln Road, Brooklyn, N.Y. | 1903 |
| Thomas, W. R. | | 1886 |
| Thompson, F. E. | Montreal | 1890 |
| Thompson, F. L. | | 1896 |
| Thompson, G. H. | North Adams, Mass | 1899 |
| Thompson, J. A. | Maple Grove, Q. | 1897 |
| Thompson, J. H. | Albion, Nebr. | 1888 |
| Thompson, Wm. E. | Dawson City, Yukon | 1882 |
| Thomson, J. | | 1892 |
| Thomson, J. O. | Quebec, Que. | 1909 |
| Thomson, J. W. | Mattawa, Ont. | 1907 |
| Tiffany, G. S. | Alexandria, Ont. | 1898 |
| Tilley, A. R. | Ottawa, Ont. | 1906 |
| Todd, J. L., B.A. | Ste. Anne de Bellevue, Q. | 1900 |
| Tolmie, J. A. | Moose Creek, Ont. | 1902 |
| Tomkins, J. A. C. | | 1893 |
| Tooke, F. T., B.A. | Montreal | 1899 |
| Townshend, C. | Canmore, Alta. | 1900 |
| Townsley, R. H. | | 1903 |
| Tozer, F. W. | Kingston, Kent Co., N.B. | 1897 |
| Tracy, A. W. | Meriden, Conn. | 1873 |
| Tracy, E. A., B.A. | North Walpole, N.H. | 1902 |
| Tracy, W. L., B.A., M.A. | Pittsfield, Mass. | 1908 |
| Trainor, J. B. | 1521 South Main St., Fall River, Mass. | 1897 |
| Travers, J. B. | Fairville, N.B. | 1891 |
| Trites, C. B. | Petitcodiac, N.B. | 1899 |
| Truax, W. | Ladysmith, B.C. | 1903 |
| Trueman, J. E. | San Jose, Cal. | 1881 |
| Trufant, L. H., A.B. | Norway, Me. | 1907 |
| Tull, J. A. C. | Atlantic City, N.J. | 1905 |
| Tunstall, C. A., B.A. | Kamloops, B.C. | 1891 |
| Tunstall, Simon J., B.A. | Vancouver, B.C. | 1875 |
| Tupper, T. S. | Claresholm, Alta. | 1896 |
| Turnbull, A. R. | Moosejaw, Sask. | 1886 |
| Turnbull, E. C. | Elmvale, Ont. | 1905 |
| Turnbull, F. M. | Bear River, N.S. | 1909 |

| | | |
|---|---|---|
| Turnbull J. A. | Clarke's Harbor, N.S. .. | 1900 |
| Turnbull, J. W. | .. .. | 1906 |
| Turnbull, T. | Winnipeg, Man. | 1899 |
| Turner, G. H., B.A. | Fort Saskatchewan, Alta.. | 1903 |
| Turner, J. S. | Spanishtown, Jamaica .... | 1910 |
| Turner, W. G., B.A. | Montreal | 1900 |
| Tuzo, Henry A. | .. .. | 1853 |
| Underhill, T. B. | Moose Jaw, Sask. | 1909 |
| Valin, R. E. | Ottawa, Ont. | 1905 |
| Vannorman, J. M. | .. .. | 1850 |
| VanWart, R. McL., B.A. | New Orleans, La., U.S.A. | 1902 |
| Vesey, E. M. | Canora, Sask. | 1907 |
| Vigneux, M. J. | Nelson, B.C. | 1911 |
| Vineberg, Hiram N. | 751 Madison Ave., New York | 1878 |
| Viner, N., B.A. | Montreal | 1905 |
| Vpiond, A. E. | Montreal | 1889 |
| Vipond, Chas. | Montreal | 1895 |
| Waddell, J. R. | Chatham, Ont. | 1907 |
| Wade, A. S. | Renfrew, Ont. | 1892 |
| Wagner, G. C. | Tacoma, Wash. | 1881 |
| Wainwright, S. F. A. | Stanley, York Co., N.B... | 1897 |
| Wakeham, William | Gaspe Basin, Que. | 1866 |
| Wales, Benjamin N. | St. Andrews East, Que... | 1874 |
| Walker, D. F. | Huntingdon, Que. | 1895 |
| Walker, E. E. W. | Fordham Hospital, New York. | 1910 |
| Walker, J. J., B.A. | St. Anne de Bellevue, Que. | 1906 |
| Walker, J. L. | 8 Wilton Pl., London, S.W., England. | 1893 |
| Walker, P. McH. | Everett, Wash. | 1898 |
| Walker, W. G. | Stratford, Ont. | 1892 |
| Wallace, C. T. | Eureka, Calif | 1908 |
| Wallace, Isaac W. | Milton, Q. | 1874 |
| Walsh, C. E. | Port Maitland, N.S. | 1900 |
| Walsh, Edmund C. | Madrid, N.Y. | 1866 |
| Walsh, J. J. | Lexington, Mass. ... .. | 1909 |
| Walsh, J. P., B.A. | 3 Collins St., Quebec, Que. | 1909 |
| Walsh, T. N. | Hawkeye, Iowa | 1892 |
| Walsh, W. E. | Morris, Ill. | 1892 |
| Walton, George O. | St. Joseph, Barbados, W.I. | 1873 |
| Ward, J. A. | Lewiston, Maine, U.S.A... | 1901 |
| Ward, Michael O'B. | .. .. | 1875 |
| Warneford, P. H. | Hampton, N.B. | 1887 |
| Warren, Frank | Whitby, Ont. | 1871 |
| Warren, J. G. | Montreal | 1903 |
| Warwick, W. | St. John, N.B. | 1904 |
| Wasson, J. H., B.A. | Extension, B.C. | 1892 |
| Waterman, C. | Utica, N.Y. | 1895 |
| Watson, J. H., B.A. | Turin, N.Y. | 1895 |
| Watson, N. M. | Red Lake Falls, Minn. .. | 1891 |
| Waugh, O. S. | Westmount, Que. | 1908 |

| | | |
|---|---|---|
| Waugh, William | London, Ont. | 1872 |
| Weagant, A. A. | Ottawa, Ont. | 1888 |
| Webster, Arthur D. | 18 Minto St., Edinburgh, Scotland | 1876 |
| Webster, R. E. | Ottawa | 1891 |
| Weldon, R. C., Jr. | Hosmer, B.C. | 1906 |
| West, J. | Magog, Que. | 1898 |
| Westley, R. A. | Montreal | 1888 |
| Wetmore, F. H. | Hampton, N.B. | 1888 |
| Wheeler, C. L., B.A. | 418 E. 16 St., Brooklyn, N.Y. | 1889 |
| Wheeler, F. H. | Moose Jaw, Sask. | 1896 |
| Whillans, H. A. | Princeton, B.C. | 1899 |
| White, D. De J. | Montreal | 1890 |
| White, E. H., B.A. | Montreal | 1901 |
| White, F. J. | Moncton, N.B. | 1886 |
| White, J. H. | | 1906 |
| White, P. G. | Montreal, Que. | 1905 |
| White, R. B. | Penticton, N.B. | 1896 |
| White, S. G. | | 1903 |
| White, W. W., M.A. | St. John, N.B. | 1886 |
| Whitelaw, W. A. | Meaford, Ont. | 1907 |
| Whiteford, Richard | 700 Frederick St., Toledo, Ohio. | 1857 |
| Whitton, D. A. | Ottawa | 1898 |
| Whyte, J. J. | Bertha, Minn. | 1889 |
| Whyte, J. T., B.A. | Osborne St., Winnipeg, Man. | 1893 |
| Wiggin, W. I. | Lowell, Mass., U.S.A. | 1901 |
| Wigle, C. A. | Wiarton, Ont. | 1905 |
| Wigle, Hiram | Wiarton, Ont. | 1875 |
| Wiley, B. E. | Fredericton, N.B. | 1901 |
| Wilkins, George (ad eun.) | Montreal | 1886 |
| Wilkins, H. P. | Birmingham, Ala. | 1887 |
| Wilkins, W. A. | Montreal | 1899 |
| Wilkinson, W. M. | Denver, Colo. | 1905 |
| Williams, C. S. | Tyne Valley, P.E.I. | 1906 |
| Williams, E. J., B.A. | Sherbrooke, Que. | 1897 |
| Williams, J. | 12 Bloomfield, Boston, Mass. | 1881 |
| Williams, J. A. | Montreal | 1895 |
| Williams, J. F. | Bracebridge, Muskoka | 1886 |
| Williams, R. G. | Rocklyn, Ont. | 1902 |
| Williams, W. | Theresa, N.Y. | 1901 |
| Williamson, H. M. | 184 E. Hanock Ave., Detroit, Mich. | 1890 |
| Williamson, W. P. | | 1891 |
| Williston, H. V., M.A. | Newcastle, N.B. | 1879 |
| Wilson, J. A. K. | Ladner's Landing, B.C. | 1885 |
| Wilmot, Le B. B. | Winnipeg, Man. | 1901 |
| Wilson, A. | | 1903 |
| Wilson, A. A. | Perth, Ont. | 1907 |
| Wilson, Benjamin S. | | 1866 |
| Wilson, C. W. | Edmonton, Alta. | 1886 |
| Wilson, F. W. E. | Niagara Falls, Ont. | 1897 |

| | | |
|---|---|---|
| Wilson, G. T., B.A. | Johns Hopkins Hosp., Baltimore, Md. | 1890 |
| Wilson, K. M. | Madoc, Ont. | 1890 |
| Wilson, O. M. | 222 Lyon St., Ottawa, Ont. | 1904 |
| Wilson, R. | Montreal | 1893 |
| Wilson, R. D. | Holly, Colo. | 1894 |
| Wilson, T. R., B.A., D.P.H. | Montreal | 1904 |
| Wilson, W. A. | Edmonton, Alta. | 1900 |
| Wilson, W. A. | Derby, N.B. | 1890 |
| Winder, J. B., B.A. | Lennoxville, Que. | 1905 |
| Winfrey, W. C., B.L. | Montreal | 1905 |
| Winter, D. E. | Ottawa, Ont. | 190. |
| Wishart, D. J. G. | Toronto | 1885 |
| Witherbee, W. D. | Potsdam, N.Y. | 1899 |
| Wolf, C. G. L., B.A. | Cornell University, Ithaca. N.Y. | 1894 |
| Woolverton, A., M.A. | 172 Bay St., Hamilton, Ont. | 1868 |
| Woolway, C. J. | .. .. | 1875 |
| Wood, Casey A. | 100 State St., Chicago. | 1906 |
| Wood, D. F. | 307 Donaldson Bdg., Minneapolis, Minn. | 1900 |
| Wood, D. M. | Wenmore, Ont. | 1895 |
| Wood, Edwin Geo. | 410 Jackson Building, Nashville, Ten. | 1885 |
| Wood, Ed. S. | 502 Pittsburg Bldg., St. Paul, Minn. | 1883 |
| Wood, G. O. | Kenmore, Ont. | 1905 |
| Wood, H. G. | Blooming Prairie, Minn. | 1904 |
| Wood, Hannibal W. | 178 Cartier St., Ottawa .. | 1865 |
| Wood, W. H. | Montreal | 1905 |
| Woodley, J. W. | Ladner, B.C. | 1899 |
| Woodrow, J. B. | Edmonton, Alta. | 1907 |
| Woodruff, E. H. | .. .. | 1890 |
| Woodruff, T. A. | Savings Bank Bldg, Chicago. | 1888 |
| Woods, David | .. .. | 1860 |
| Woods, John J. E. | Aylmer, Que. | 1875 |
| Worley, E. G. | Haley's Station, Ont. | 1909 |
| Worthington, A. N. | Sherbrooke, Que. | 1886 |
| Wright, H. K. | .. .. | 1895 |
| Wright, G. A. | Saskatoon, Sask. | 1904 |
| Wright, John W., B.A. | Picton, Ont. | 1878 |
| Wright, R. P. | Montreal | 1908 |
| Wye, John H. | 38 Drummond Crescent, London, N.W. Eng. | 1868 |
| Wylde, C. F. | Montreal | 1888 |
| Wyman, H. B., B.A. | Chute à Blondeau, Ont. | 1911 |
| Yates, H. H., B.A. | Montreal | 1893 |
| Yearwood, C. A., B.A. | St. Thomas, Barbados, W.I. | 1893 |
| Yeo, I. J. | Charlottetown, P.E.I. | 1908 |
| York, H. E. | .. .. | 1894 |
| Yorston, F. P., M.A. | Sawyerville, Que. | 1904 |

| | | |
|---|---|---|
| Yorston, F. S. | Truro, N.S. | 1890 |
| Youland, W. E., Jr., B.A. | Biddeford, Me. | 1910 |
| Young, A. MacG., B.A. | Saskatoon, Sask. | 1906 |
| Young, C. A. | | 1905 |
| Young, H. E., B.A. | Victoria, B.C. | 1888 |
| Young, Robert C. | 283 Merrick Ave., Detroit, Mich. | 1873 |

## GRADUATES IN DENTISTRY.

| | | |
|---|---|---|
| Aronson, A. M. | Montreal. | 1911 |
| Berwick, D. J., (ad eundem) | Montreal, | 1911 |
| Cameron, G. L. | Swift Current, Sask. | 1908 |
| Cunningham, R. B., M.D. | Montreal, | 1911 |
| Daigneau, P. L. | Thetford Mines, Que. | 1908 |
| Glickman, A. | Montreal. | 1911 |
| Hawkshaw, E. P. | Chilliwack, B.C. | 1910 |
| Hills, O. H. B. L. | Lynn, Mass. | 1908 |

## GRADUATES IN PUBLIC HEALTH.

| | | |
|---|---|---|
| Arton, O. A., M.D., | Bailey's Bay, Bermuda, W. I. | 1910 |
| Delaney, W. J., M.D., | Quebec, Que. | 1910 |
| Douglas, F. C., M.D., | Montreal, Que. | 1904 |
| Drum, Major Lorne, M.D., | Quebec, Que. | 1909 |
| Fyshe, J. C., M.D., | Siam | 1907 |
| Jacques, H. M., M.D., | Halifax, N.S. | 1911 |
| Jones, F. B., M.D., | Montreal, Que. | 1902 |
| Joughin, J. L., M.D., | Montreal, Que. | 1907 |
| Lomer, T. A., M.D., | Montreal, Que. | 1910 |
| Lundie, J. A., M.D., | Montreal, Que. | 1904 |
| Melvin, G. G., M.D., | St. John, N.B. | 1911 |
| Rankin, R. C., M.D., | Montreal, Que. | 1909 |
| Wilson, T. R., M.D., | Carp, Ont. | 1906 |
| Young, W. H., M.D., | Van Hornesville, Que. | 1907 |

## LIST OF DECEASED GRADUATES IN MEDICINE.

| | |
|---|---|
| *Adsetts, John | 1866 |
| *Alloway, Thomas Johnson | 1869 |
| *Anderson, John C. | 1865 |
| *Ardagh, Johnson | 1869 |
| *Armitage, J. H. | 1886 |
| *Arnoldi, Daniel (Hon.) | 1848 |
| *Ault, C. R. | 1896 |
| *Ault, J. F. | 1855 |
| *Aylen, James | 1863 |
| *Aylen, John | 1857 |
| *Bain, D. S. E. | 1868 |
| *Bain, Hugh U. | 1874 |
| *Baird, J. A. | 1900 |
| *Baker, Albert | 1848 |
| *Barclay, George | 1870 |
| *Barnston, James (ad eun.) | 1856 |
| *Barrett, Jos. A. | 1884 |
| *Battersby, Charles | 1861 |
| *Beatty, D. | 1862 |
| *Beaudette, Alfred | 1865 |
| *Bell, James | 1877 |
| *Bell, John, M.A. | 1866 |
| *Benson, Joseph B. | 1875 |
| *Bergeron, Joseph | 1870 |
| *Bergin, Darby | 1874 |
| *Berry, J. A. | 1887 |
| *Berwick, R. H. | 1891 |
| *Bessey, William E. | 1863 |
| *Bibaud, Jean G. | 1843 |
| *Binmore, J. E. | 1892 |
| *Blanchet, J. B. | 1863 |
| *Blacklock, John J. | 1851 |
| *Blair, R. C. | 1865 |
| *Bigh, T. H. | 1865 |
| *Bogart, Irvine D. | 1859 |
| *Bomberry, Geo. E. | 1875 |
| *Bouck, C. W. | 1895 |
| *Boulter, Geo. H. | 1852 |
| *Bowman, William E. | 1860 |
| *Bowser, J. C. | 1883 |
| *Boyer, Louis | 1842 |
| *Boylan, Andrew W. | 1857 |
| *Bradley, William | 1869 |
| *Bradley, W. I. | 1888 |
| *Braithwaite, Frances H. | 1863 |
| *Braithwaite, J. M. | 1896 |
| *Brennau, F. A. | 1902 |
| *Breslin, Wm. T. | 1847 |
| *Brigham, Josiah S. | 1848 |
| *Brissette, Henry R. | 1871 |
| *Bristol, Amos S. | 1850 |
| *Brodie, John | 1877 |

*Brooks, Samuel T. ..... 1851
*Brouse, Jacob E. ..... 1861
*Brouse, William H. ..... 1847
*Brown, C. O. ..... 1882
*Browne, A. A. ..... 1872
*Bruneau, Adolphe ..... 1853
*Bruneau, Oliver T. (Hon.) ..... 1843
*Bruneau, Onesime ..... 1851
*Brunette, J. S. ..... 1892
*Bucke, Edward H. ..... 1852
*Bucke, Richard Maurice ..... 1862
*Buckle, John M. C. ..... 1869
*Buckley, Wm. P. ..... 1870
*Bull, Geo. J. ..... 1860
*Bullen, Charles F. ..... 1864
*Buller, Frank ..... 1879
*Burland, J. H. ..... 1863
*Burland, W. B. ..... 1872
*Burnham, Robert Wilkins ..... 1860
*Burns, Alfred J. ..... 1854
*Burrows, Philip ..... 1866
*Butler, George C. ..... 1865
*Buxton, John N. ..... 1849

*Cahalan, James ..... 1880
*Cameron, D. H. ..... 1877
*Cameron, J. D. ..... 1893
*Cameron, J. D. ..... 1878
*Cameron Paul ..... 1881
*Campbell, A. W. ..... 1886
*Campbell, Donald Peter ..... 1860
*Campbell Francis Wayland ..... 1860
*Campbell, G. W., M.A. (ad eundem) ..... 1843
*Campbell, S. ..... 1866
*Cantlie, F. P. L. ..... 1902
*Carrington, E. A. S. ..... 1909
*Carroll, Robert W. W. ..... 1859
*Carson, Augustus ..... 1843
*Carson, J. ..... 1866
*Carter, L. H. ..... 1888
*Casgrain, Hon. Chas. A. ..... 1851
*Cattanach, Andrew J. ..... 1871
*Challinor, Francis ..... 1849
*Chalmers, W. W., B.A. ..... 1888
*Chesley, George Ashbold ..... 1862
*Chisholm, Alex. ..... 1878
*Christie, John B. ..... 1865
*Christie, John H., B.A. ..... 1875
*Christie, Thomas ..... 1848
*Church, Charles H. ..... 1862
*Church, Clarence R. ..... 1868
*Church, Coller M. ..... 1855
*Church, Hon. Levi R. ..... 1857
*Church, John R. ..... 1884
*Church, Peter H. ..... 1846

| | |
|---|---|
| *Clarke, Henry J. | 1884 |
| *Cline, John D., B.A | 1874 |
| *Cluness, Daniel | 1870 |
| *Coburn, A. D. | 1893 |
| *Collins, Charles W. | 1869 |
| *Colquhoun, George | 1876 |
| *Cook, Herman L. | 1894 |
| *Cooke, C. H. | 1866 |
| *Cooke, W. H. | 1876 |
| *Corbett, A. M. P. | 1854 |
| *Corsan, John | 1866 |
| *Cotton, C. L. | 1877 |
| *Cox, Frank | 1869 |
| *Craik, Robert, LL.D. | 1854 |
| *Cram, Daniel C. | 1872 |
| *Cram, W. J. | 1904 |
| *Crawford, James (ad eun.). | 1854 |
| *Cream, Thos. N. | 1876 |
| *Culver, Joseph B. | 1848 |
| *Cunnynghame, W. C. Thurlow | 1858 |
| *Currie, W. D. | 1902 |
| *Cutler, F. A. | 1873 |
| | |
| *Daly, Guy D. F. | 1868 |
| *Dansereau, Charles | 1842 |
| *Dansereau, Chas. | 1869 |
| *Dansereau, Pierre | 1835 |
| *Davignon, F. F. | 1871 |
| *Day, A. R. A. | 1892 |
| *Deardon, G. A. | 1883 |
| *Dease, Peter Warren | 1847 |
| *DeBoucherville, Charles B. | 1843 |
| *Decelles, Charles D. | 1841 |
| *DeCow, D. McG. | 1886 |
| *Demorest, B. G. G. | 1852 |
| *Desaulniers, Antoine A. | 1863 |
| *Dewar, C. P. | 1888 |
| *Dice, George | 1864 |
| *Dick, James R. | 1842 |
| *Dickinson, George | 1868 |
| *Dickinson, James S. | 1846 |
| *Dickson, William W. | 1863 |
| *Digby, T. Winnett | 1863 |
| *Dodd, John | 1864 |
| *Donnelly, C. H. | 1860 |
| *Dorion, Severe | 1843 |
| *Dorland, Enoch P. | 1850 |
| *Dougan, Wm. | 1867 |
| *Douglas, Hon. James | 1847 |
| *Drake, Joseph M. | 1851 |
| *Drummond, W. H. (ad eun.) M.D., Bishop's | 1906 |
| *Ducket, Stephen | 1853 |
| *Duncan, George | 1866 |
| *Duncan, G. H. | 1892 |

*Duncan, John ..... 1871
*Duncan, John A. ..... 1884
*Dunn, William Oscar ..... 1843

*Eberie, Harry A. ..... 1876
*Eberts, D. W. von ..... 1885
*Easton, John ..... 1852
*Ellis, T. H. ..... 1890
*England, W. S. ..... 1889
*English, T. F. ..... 1858
*Erskine, John ..... 1860
*Ewing, William ..... 1873
*Falls, Samuel K. ..... 1875
*Farewell, G. McGill ..... 1872
*Fenwick, Geo. E. ..... 1847
*Ferguson, A. A. ..... 1864
*Ferguson, J. A. ..... 1896
*Ferguson, Alex. R. ..... 1866
*Findlay, C. ..... 1896
*Finlayson, John ..... 1834
*Fisher, John ..... 1847
*Fitzgerald, James ..... 1865
*Ford, H. S. ..... 1904
*Fortune, Louis M. ..... 1873
*Fortin, Pierre ..... 1845
*Foster, Stephen Sewell ..... 1846
*Fox, A. C. L. ..... 1898
*Fraleigh, William S. ..... 1869
*Fraser, Donald ..... 1868
*Fraser, Donald M. ..... 1869
*Fraser, H. D. ..... 1881
*Fraser William ..... 1836
*Furse, W. J. ..... 1907

*Gallant, St. C. J. ..... 1895
*Gardner, Matthew ..... 1871
*Garvey, Joseph ..... 1852
*Gascoigne, Geo. E. ..... 1861
*Gauvreau, Elzear ..... 1855
*Gauvreau, Lewis H. ..... 1836
*Gernon, George W. ..... 1872
*Gibb, George D. ..... 1846
*Gibson, Edward B. ..... 1864
*Gibson, J. B. ..... 1886
*Gibson, John B. ..... 1855
*Gilbert, Henry L. ..... 1875
*Gillies, John ..... 1867
*Gillis, John A. F. ..... 1877
*Gilmour, Angus A. ..... 1868
*Giroux, Philippe ..... 1859
*Godfrey, Robert ..... 1844
*Goodhue, P. J. ..... 1873
*Gordon, W. W. ..... 1865
*Grafton, E. A. ..... 1891
*Graham, Henry ..... 1863

| | |
|---|---|
| *Grant, A. J. | 1896 |
| *Grant, Donald J. | 1863 |
| *Grant, William | 1867 |
| *Greaves, Henry C. | 1877 |
| *Green, T. J. | 1890 |
| *Grenier, L. P. A. | 1863 |
| *Guest, Thomas F. | 1873 |
| *Gun, James | 1861 |
| *Gunn, Neil D. | 1888 |
| *Gustin, Wm. Claud | 1863 |
| *Hagarty, D. M. J. | 1868 |
| *Hall, Archibald (ad eun.) | 1843 |
| *Hall, James B. | 1866 |
| *Hall, J. W. | 1848 |
| *Halliday, Vernon St. C. | 1892 |
| *Hamer, A. L. | 1887 |
| *Hamel, Jas. A. | 1856 |
| *Hamilton, Andrew W. | 1859 |
| *Hamilton, J. R. | 1871 |
| *Hamilton, Rufus F. | 1861 |
| *Harding, F. W. | 1868 |
| *Harkin William | 1858 |
| *Harkness, Andrew | 1869 |
| *Harrison, David H. | 1864 |
| *Hart, F. W. | 1835 |
| *Harvey, Jonas J. | 1866 |
| *Hayes, James | 1866 |
| *Hayes, P. J. | 1892 |
| *Henderson, Alex. A. | 1870 |
| *Henderson, E. G. | 1874 |
| *Henderson, James | 1892 |
| *Henderson Peter, A.M. | 1848 |
| *Henry, Walter (Hon.) | 1853 |
| *Henry, Walter J. | 1856 |
| *Hewetson, J. | 1891 |
| *Hewitt, J. | 1888 |
| *Heyd, H. E. | 1881 |
| *Hickey, C. E. | 1866 |
| *Hickey, Samuel A., B.A. | 1874 |
| *Higginson, H. A. | 1881 |
| *Hils, Joseph | 1873 |
| *Hingston, Hon. Sir W. H. | 1851 |
| *Hogg, L., B.A. | 1895 |
| *Holden, Rufus | 1844 |
| *Holmes, Andrew F. (ad eun.) | 1843 |
| *Holohan, P. A. | 1894 |
| *Holwell, John | 1868 |
| *Hopkins, C. W. | 1902 |
| *Hopkins, F. A. | 1889 |
| *Howard, James | 1867 |
| *Howard, Robert | 1872 |
| *Howard, R. Palmer | 1848 |
| *Howden, Robert | 1857 |
| *Hubert, P. T. | 1889 |
| *Hurdman, H. H. | 1897 |

| | |
|---|---|
| *Hulbert, E. Augustus | 1860 |
| *Hunt, J. H. | 1869 |
| *Hunt, J. J. | 1881 |
| *Hurdman, Benj. F. W. | 1882 |
| *Hurt, Ed. P. | 1865 |
| *Irwin, W. T. | 1889 |
| *Ives, Eli | 1863 |
| *Jackson, A. T. | 1846 |
| *Jackson, J. A. | 1879 |
| *Jamieson, Alex., B.A. | 1877 |
| *Jamieson, Thomas A. | 1875 |
| *Jenkins, W. E. | 1890 |
| *Johnson, Thomas G. | 1871 |
| *Johnston, J. C. | 1867 |
| *Johnston, W. G. | 1884 |
| *Jones, George N. | 1874 |
| *Jones, H. J. M. | 1873 |
| *Jones, Sydney, B.A. | 1901 |
| *Jones, Thomas W. (ad. eun.) | 1854 |
| *Kearney, W. J. | 1875 |
| *Kelly, J. A. A. | 1887 |
| *Kelly, Patrick | 1884 |
| *Kelly, Wm. | 1846 |
| *Kempt, William | 1864 |
| *Kennedy, J. H. | 1888 |
| *Kennedy, Richard A. | 1864 |
| *Kerr, James | 1858 |
| *Killery, St. John | 1862 |
| *Kincaid, R. M. | 1888 |
| *King, Richard | 1867 |
| *Kirkpatrick, A. | 1856 |
| *Kirkpatrick, R. C., B.A. | 1886 |
| *Kittson, Edmund G. | 1873 |
| *Kittson, John G. | 1873 |
| *Klock, W. H. | 1885 |
| *Knowles, James A. | 1866 |
| *Kollmyer, Alex. H. | 1856 |
| *Lang, Thomas D. | 1866 |
| *Langlois, O. X. | 1875 |
| *Langrell, Richard T. | 1875 |
| *Lapailleur, L. | 1848 |
| *Larocque, A. B. | 1847 |
| *Law, D. W. C. | 1868 |
| *Lawrence, Henry G. H. | 1862 |
| *Layon, J. S., B.A. | 1906 |
| *Leavitt, Julius | 1866 |
| *Leclair, Napoleon | 1862 |
| *Lee, F. J. | 1896 |
| *Lee, James C. | 1856 |
| *Lee, John Rolph | 1848 |
| *Lefebvre, John M. | 1879 |
| *Legault, D. | 1868 |
| *Lemoine, C. | 1850 |

*Lennon, H., B.A. ..... 1897
*Leprohon, John L. ..... 1843
*Liddell, G. L. ..... 1890
*Lindsay, Heriot ..... 1861
*Lister, James ..... 1862
*Lloyd, H. W. ..... 1879
*Locke, C. F. A. ..... 1872
*Logan, David D. ..... 1842
*Logie, Wm. ..... 1833
*Long, Alexander ..... 1844
*Longpré, Pierre F. ..... 1848
*Loupret, Andre ..... 1850
*Loux, Wm. ..... 1870
*Loverin, Nelson ..... 1855
*Lucas, T. D'Arcy ..... 1869
*Lundy, E. L. ..... 1862
*Lynch, D. P. ..... 1896

*MacArthur, C. O. ..... 1908
*Macdonald, Colin ..... 1853
*Macdonald, Roderick ..... 1834
*MacDonnell, R. L., B.A. ..... 1876
*Macfie, James ..... 1869
*Mack, Francis Lewis ..... 1866
*MacKie, J. R. ..... 1865
*Macklem, Samuel S. ..... 1859
*Macnabb, Francis A. L. ..... 1870
*McArthur, A. D. ..... 1893
*McCallum, Duncan C. ..... 1850
*McCann, J. J., B.A. ..... 1878
*McCollough, George ..... 1879
*McConkey, T. C. ..... 1872
*McCord, John D. ..... 1864
*McCormick, Andrew G. ..... 1874
*McCullough, Michael (Hon.) ..... 1843
*McCurdy, John ..... 1866
*McDermid, Wm. E. ..... 1875
*McDiarmid, Donald ..... 1867
*McDiarmid, John D. ..... 1847
*McDonald, C. A. ..... 1901
*McDonald, J. D. A. ..... 1873
*McDonell, Aeneas ..... 1849
*McDonnell, Alex. R. ..... 1874
*McDonnell, Angus C. ..... 1852
*McDougall, Peter A. ..... 1847
*McEwen, Findlay ..... 1870
*McEwen, H. ..... 1889
*McGannon, A. V. ..... 1896
*McGannon, E. A. ..... 1881
*McGill, William ..... 1848
*McGillivray, Donald ..... 1861
*McGrath, Thomas ..... 1849
*McGregor, Duncan ..... 1861
*McGuigan, W. J. ..... 1879

| | |
|---|---|
| *McGuire, Bernard D | 1873 |
| *McGuire, J. C. | 1891 |
| *McIntosh, James | 1859 |
| *McIntyre Peter A. | 1867 |
| *McKay, D. T. | 1892 |
| *McKay. Walter | 1854 |
| *McKee, W. E. | 1902 |
| *McKenzie, R. R. | 1904 |
| *McKercher. H. | 1889 |
| *McLaren, J. T. | 1894 |
| *McLaren, Peter | 1869 |
| *McLean, Alexander | 1860 |
| *McLean, I. N., B.A. | 1884 |
| *McLellan, A. C. | 1890 |
| *McLellan, J. H. | 1884 |
| *McLeod, Arch., B.A. | 1883 |
| *McLeod, James | 1873 |
| *McMillan, Aeneas J. | 1874 |
| *McMillan, John | 1857 |
| *McMillan, J. H. | 1891 |
| *McMillan, W. | 1893 |
| *McMorrine, R. F. | 1893 |
| *McMurray, Samuel | 1841 |
| *McNaughton, E. P. | 1834 |
| *McNeece, James | 1869 |
| *McNeil, Ernest N. | 1878 |
| *McNiece, T. G. | 1899 |
| *McNulty, T. G. | 1880 |
| *McRae, George | 1876 |
| *McVean, John M. | 1865 |
| *Madill, John | 1867 |
| *Malhiot, Alfred | 1846 |
| *Mallory, A. E. | 1872 |
| *Malloch, Edward C. | 1863 |
| *Malloch, William B. | 1867 |
| *Maloney, M. J. | 1872 |
| *Marceau, Louis T. | 1872 |
| *Marchant, H. B. | 1910 |
| *Markell, Richard S. | 1867 |
| *Marr, Israel P. | 1849 |
| *Marston, Alonzo W. | 1871 |
| *Marston, John J. | 1863 |
| *Martin, J. C. | 1904 |
| *Mason, J. L., M.A. | 1863 |
| *Mathieson, Neil | 1870 |
| *Mayrand, William | 1847 |
| *Meigs, Malcolm R. | 1805 |
| *Meredith, Thomas L. B. | 1842 |
| Merckley, E. A. | 1897 |
| *Merritt, D. P., B.A. | 1884 |
| *Metcalfe, Henry J. | 1876 |
| *Miller, R. | 1870 |
| *Mills, W. C. | 1893 |
| *Mines, W. | 1874 |

| | |
|---|---|
| *Moffatt, Walter | 1868 |
| *Mondelet, W. H. | 1868 |
| *Mongenais, Napoleon | 1865 |
| *Monk, George H. | 1875 |
| *Moore, Richard | 1853 |
| *Moore, Robert C. | 1869 |
| *Moore, William | 1881 |
| *Morrin, Joseph (Hon.) | 1850 |
| *Morris, T. E. | 1899 |
| *Morrison, J., M.A. | 1872 |
| *Morrison, David R. | 1869 |
| *Morrison, G. D. | 1900 |
| *Mount, John W. | 1851 |
| *Mowat, M. M. | 1889 |
| *Murray, Charles M., B.A. | 1876 |
| *Musgrove, W. J. | 1882 |
| | |
| *Neil, J. | 1892 |
| *Neilson, W. J. | 1878 |
| *Nelles, J. A. | 1850 |
| *Nelson, Horace | 1861 |
| *Nelson, Wolfred (Hon.) | 1848 |
| *Nelson, W. M. F. | 1884 |
| *Nesbitt, J. A. | 1868 |
| *Nicholls, Chas. R. | 1862 |
| *Niven, J. K. | 1901 |
| *Norton, Thomas | 1874 |
| | |
| *Oakley, Wm. D. | 1877 |
| *O'Brien, David | 1873 |
| *O'Brien, Robert S. | 1873 |
| *O'Brien, T. J. P. | 1882 |
| *O'Callagan, Cornelius H. | 1854 |
| *O'Carr, Peter | 1851 |
| *O'Connor, C. | 1890 |
| *O'Connor, Daniel A. | 1867 |
| *Odell, William | 1849 |
| *Oliver, James W. | 1867 |
| | |
| *Padfield, Charles W. | 1868 |
| *Painchaud, Edward S. L. | 1848 |
| *Pallen, Montrose A. | 1864 |
| *Paquin, Jean M. | 1843 |
| *Paradis, Henri | 1846 |
| *Paradis, Pierre E. | 1867 |
| *Park, George A. | 1877 |
| *Parke, Charles S. | 1866 |
| *Parker, Rufus S. | 1866 |
| *Patterson, James M. | 1855 |
| *Pattee, George | 1858 |
| *Payne, G. A. L. | 1906 |
| *Pegg, Austin J. | 1872 |
| *Perks, W. C. | 1881 |
| *Perry, H. R. | 1873 |
| *Phelan, James B. | 1874 |

*Phelan, Joseph P. ..... 1854
*Philip, David L. ..... 1861
*Phillmore, R. H. ..... 1893
*Picault Chas. ..... 1857
*Pickup, John W. ..... 1860
*Pigeon, W. H. ..... 1898
*Pinet, Alexis ..... 1847
*Porter, J. A., B.A. ..... 1887
*Powell, Newton W. ..... 1852
*Powers, George W. ..... 1861
*Pringle, George ..... 1855
*Pringle, W. R. ..... 1886
*Provost, E. Gilbert ..... 1859

*Quarry, James J. ..... 1868
*Quay, D. D. ..... 1895
*Quesnel, Jules M. ..... 1849

*Rae, J. Hamilton (Hon.), LL.D. ..... 1853
*Rainville, Pierre ..... 1863
*Rambaúlt, J. ..... 1859
*Rattray, Charles J. ..... 1871
*Rattray, James C. ..... 1874
*Raymond, G. H., B.A. ..... 1886
*Raymond, Olivier ..... 1850
*Redner, Horace P. ..... 1864
*Reddy, John (ad eun.) ..... 1857
*Reed, Thomas D. ..... 1871
*Reid, John A. ..... 1871
*Reid, Kenneth ..... 1864
*Reynolds, Robert T. ..... 1836
*Reynolds, Thomas ..... 1842
*Reynolds, T. W. ..... 1881
*Richardson, A. ..... 1894
*Richmond, P. E. ..... 1873.
*Ridley, Henry Thomas ..... 1852
*Riel, Etienne R. E. ..... 1857
*Riley, Oscar H. ..... 1879
*Rinfret, F. R. ..... 1868
*Rintoul, David M. ..... 1854
*Ritchie, A. A. ..... 1897
*Ritchie, A. F., B.A. ..... 1876
*Roberts, Edward T. ..... 1859
*Roberts, John C. E., B.A. ..... 1867
*Robertson, D. T. ..... 1857
*Robertson, Patrick ..... 1867
*Robinson, Wesley ..... 1872
*Robitaille, Hon. L. T. ..... 1858
*Rodger, Thomas A. ..... 1869
*Ross, George M.A. ..... 1866
*Ross, Henry ..... 1872
*Ross, James, B.A. ..... 1881
*Ross, L. F., B.A. ..... 1887
*Ross, Thomas ..... 1863

*Ross, Wm. C. ..... 1871
*Ross, Wm. D. ..... 1875
*Rumsey, William ..... 1859
*Ruttan, Allen ..... 1852

*Sabourin, Moise ..... 1849
*Sampson, James (Hon.) ..... 1847
*Sanderson, George W. ..... 1850
*Savage, Alex. C. ..... 1866
*Sawyer, James H. ..... 1863
*Scammell, J. H. ..... 1894
*Schmidt, A. J. ..... 1886
*Schmidt, Samuel B. ..... 1847
*Schofield, David T. ..... 1869
*Scott, William E. ..... 1844
*Scott, Wm. F. ..... 1875
*Scott, W. McE. ..... 1883
*Scriven, George Augustus ..... 1846
*Scully, D. J. ..... 1887
*Seery, F. J. ..... 1886
*Seguin, Andre ..... 1848
*Senkler, A. E. ..... 1863
*Setree, Edward W. ..... 1878
*Sewell, Stephen C. (ad eun.) ..... 1843
*Shaughnessy, C. R. ..... 1900
*Shaw, Alexander ..... 1882
*Shaver, Peter Rolph ..... 1854
*Shaver, R. N. ..... 1857
*Simard, Amable ..... 1852
*Simpson, E. G. W., B.A. ..... 1901
*Slack, T. J. ..... 1896
*Smallwood, John R. ..... 1868
*Smellie, T. J. S., M.A. ..... 1877
*Smith, Daniel D. ..... 1868
*Smith, Daniel F. ..... 1878
*Smith, E. H. ..... 1881
*Smith Edward W. ..... 1859
*Smith, John ..... 1879
*Smith, Norman A. ..... 1870
*Smith, William ..... 1876
*Smythe, T. W. ..... 1848
*Sparham, Terence ..... 1841
*Spencer, Richmond ..... 1879
*Squire, William Wood, M.A. ..... 1864
*Staunton, Andrew ..... 1846
*Stephen, G. C. ..... 1887
*Stephen, William ..... 1881
*Stephenson, James ..... 1859
*Stevenson, Charles N. ..... 1876
*Stevenson, John L. ..... 1855
*Stevenson, John A. ..... 1878
*Stewart, John Alexander ..... 1862
*Stewart, James ..... 1869

| | |
|---|---|
| *Simpson, Alfred O. | 1868 |
| *Strobridge, James Gordon | 1862 |
| *Stroud, C. S. | 1876 |
| *Struthers, R. B. | 1883 |
| *Sutherland, Fred Dunbar | 1861 |
| *Sutherland, William | 1836 |
| *Sutherland, William | 1870 |
| *Sutherland, Wm. R. | 1879 |
| | |
| *Tabb, Silas E., M.A. | 1869 |
| *Tait, Henry Thomas | 1860 |
| *Taylor, T. T. | 1892 |
| *Telfer, W. J. | 1890 |
| *Theriault, F. D. | 1863 |
| *Thompson, James | 1842 |
| *Thompson, Robert | 1852 |
| *Thomson, F. L. | 1896 |
| *Thornton, Hastewell W., B.A. | 1882 |
| *Tierney, J. A. | 1897 |
| *Trapnell, H. E. | 1887 |
| *Trenholme, Edward Henry | 1862 |
| *Troy, W. | 1891 |
| *Trudel, Eugene H. | 1844 |
| *Turgeon, Louis G. | 1860 |
| *Ussher, Henry | 1861 |
| | |
| *Vercoe, Henry L. | 1865 |
| *Vicat, John R. | 1867 |
| | |
| *Wagner, A. Dixon | 1872 |
| *Wagner, William H. | 1844 |
| *Wainwright, F. R. | 1897 |
| *Walker, Felix D. | 1884 |
| *Walker, H., B.A. | 1902 |
| *Walker, Robert | 1851 |
| *Wanless, John R. | 1867 |
| *Ward, Wm. T. | 1873 |
| *Warren, J. F. | 1896 |
| *Warren, Henry | 1860 |
| *Weagant, C. A. | 1879 |
| *Webb, James F. S. | 1871 |
| *Weir, Richard | 1852 |
| *Weilbrenner, Remi | 1851 |
| *Wherry, John | 1862 |
| *Whitcombe, J. C. | 1848 |
| *Whiteford, James W. | 1873 |
| *Whitwell, W. P. O. | 1860 |
| *Whyte, Joseph A. | 1870 |
| *Wickham, W. W. | 1895 |
| *Widmer, Christopher (Hon.) | 1847 |
| *Wilcox, Marshall B. | 1868 |
| *Williams, E. P. | 1887 |
| *Wilscame, John Wilbrod | 1846 |
| *Wilson, J. J. | 1901 |

| | |
|---|---|
| *Wilson, Robert M. | 1850 |
| *Wilson, S. F. | 1884 |
| *Wilson, William | 1857 |
| *Wood, George | 1863 |
| *Wood, G. C. | 1849 |
| *Wood, W. S. | 1896 |
| *Woodful, Sam. Pratt | |
| *Workman, Benjamin | 1853 |
| *Workman, Joseph | 1835 |
| *Worthington, Edward (ad eun.) | 1868 |
| *Wright, Henry P. | 1872 |
| *Wright, Stephen | 1859 |
| *Wright, Wm., Rev. | 1849 |
| *Ycuker, William | 1870 |
| *Ycung, A. A. | 1887 |
| *Ycung, Philip R. | 1876 |

## DENTAL GRADUATES.

| | |
|---|---|
| *McDonell, D. L. S. | 1910 |

# UNIVERSITY OF BISHOPS' COLLEGE

## LIST OF PRIZEMEN, MEDALLISTS AND GRADUATES IN THE FACULTY OF MEDICINE, 1877-1905

It had long been felt that the union of the Medical Faculty of the University of Bishop's College with that of McGill University would strengthen the position of Medical Education in the Province of Quebec, and establish a friendlier feeling between the practitioners interested in the two Schools; consequently during the Session of 1904-05 amalgamation was consummated, the Students of Bishop's Medical Faculty to receive under certain conditions an "ad eundem statum." The Faculty now has pleasure, in conformity with its agreement, in appending a complete list of the Graduates of the Medical Faculty of Bishop's University.

### Prizemen and Medallists.

Abbott, Miss Maude E.—1892, Practical Anatomy, Senior Prize. 1894 Chancellor's Prize.
Addison, E. J.—1896, Chancellor's Prize.
Anderson, F. O.—1898, "David" Medal and Histology Prize. 1900, "Wood" Gold Medal.
Aris, F. W.—1902, Practical Anatomy, Junior Prize. 1903, Practical Anatomy, Senior Prize. 1905, "Wood" and "Nelson" Gold Medals.
Armitage, G. G.—1903, "David" Silver Medal.
Armstrong, C. H. B.—1892, Practical Anatomy, Junior Prize. 1893, Senior Dissector. 1894. "Nelson" Gold Medal.
Ball, C. Dexter.—1880, Botany, Prize. Practical Anatomy, Junior Prize. 1884, Final Examination, 1st Class Honors.
Barrett, R. F.—1902, Histology, Prize.
Benny, J. J.—1895, "David" Silver Medal.
Bertrand, F. E.—1887, Botany, Prize. 1888, "David" Scholarship.
Bishop, Heber.—1880, Primary Examination, Prize. 1882, Final Examination, "Wood" Gold Medal, "Nelson" Gold Medal.
Blackmer, R. C.—1882, Practical Anatomy, Junior Prize. 1884, Final Examination, Chancellor's Prize.

Bronstorph, Ernest.—1883, Primary Examination, "David" Scholarship. 1884, Final Examination, "Wood" Gold Medal, "Nelson" Gold Medal.
Brown, E. H.—1900, 2nd year, Practical Anatomy.
Brown, U. P.—1901, Practical Anatomy, Junior Prize.
Burnett, Wm.—1889, Practical Anatomy, Junior Prize. 1891, "David" Silver Medal. 1892, Final Examination, "Wood" Medal.
Campbell, Rollo.—1887, Chancellor's Prize.
Cass, C. M.—1902, Chancellor's Prize.
Caswell, J. A.—1883, Final Examination, "Wood" Gold Medal.
Cauley, John J.—1876, Anatomy, Special Prize.
Chandler, Henry B.—1877, Botany, Prize. Practical Anatomy, Prize. 1878, Primary Examination, Prize. 1880, Final Examination, "Wood" Gold Medal.
Clark, L. M.—1887, "David" Scholarship. 1889, Chancellor's Prize.
Corcoran, J. A.—1895, Senior Practical Anatomy, Prize.
Costigan, Robert.—1872, Practical Anatomy, Junior Prize. Physiology, Junior Prize. 1873, Physiology, Prize. 1874, Final Examination, Prize.
Coquillette, W. E.—1873, Practical Anatomy, Junior Prize.
Curlett, R. K.—1884, Practical Anatomy. Junior Prize.
Cunin, Miss J.—1895, "Wood" Gold Medal.
Davis, John T.—1875, Primary Examination, Prize. Final Examination, Prize.
DeMoulpied, Walter.—1881, "Nelson" Gold Medal.
Donnelly, T. F.—1904, "Wood" Gold Medal.
Dubuc, Godfroi.—1872, Practical Anatomy, Senior Prize. Physiology, Senior Prize. Primary Examination, Prize.
Edwards, J. J.—1888, Practical Anatomy, Junior Prize. 1889, Practical Anatomy, Senior Prize. 1890, "David" Silver Medal. 1890, "Wood" and "Nelson" Gold Medals.
Elliott, C. E.—1887, Practical Anatomy, Junior Prize. 1889, "Wood" Gold Medal, "Nelson" Gold Medal.
England, F. R.—1882, Botany, Prize. 1884, Primary Examination, "David" Scholarship. 1885, "Wood" Gold Medal, "Nelson" Gold Medal.
Evans, Florence L. A.—1900, "David" Silver Medal.
Fairfield, W. A.—1884, Botany, Prize. 1886, Primary Examination, "David" Scholarship. 1887, "Wood" Gold Medal. 1887, "Nelson" Gold Medal.
Faulkner, G. F.—1902, Practical Anatomy, Senior Prize.
Fisk, Geo.—1891, Practical Anatomy, Junior Prize. 1894, "Wood" Gold Medal.
Foley, James Leslie.—1878, Practical Chemistry, Prize. 1880, Final Examination, Prize.
Fortin, C. A.—1896, "David" Medal. 1897, "Wood" Gold Medal.
Francis, John—1898, Chancellor's Prize.
Franckum, James—1901, "David" Silver Medal. 1903, "Wood" Gold Medal. 1903, "Nelson" Gold Medal.
Freligh, Edgar O'B.—1881, Practical Anatomy, Junior Prize.
Furse, W. J.—1905, Histology, Prize.
Gaherty, D. D.—1878, Primary Examination, Prize. 1879, Final Examination, Prize.

Gavin, W. F.—1904, Histology, Prize.
Gillespie, James A.—1899, "David" Silver Medal. 1901, "Wood" Gold Medal. 1901, "Nelson" Gold Medal.
Godfrey, Robert F.—1873, Practical Anatomy, Senior Prize.
Gomery, Miss Minnie—1895, Practical Anatomy, Prize. Botany, Prize. 1896, Senior Dissector's Prize, "David" Medal. 1898, "Wood" Gold Medal.
Gill, I. H. U.—1879, Practical Anatomy, Senior Prize.
Groulx, V. J.—1885, Practical Anatomy, Senior Prize.
Hackett, F. J.—1890, Practical Anatomy, Senior Prize. Botany, Prize.
Hall, Geo.—1893, Botany. Junior Dissector. 1896, "Wood" Gold Medal.
Henry, F. G.—1897, Junior Dissector's Prize. 1898, Senior Dissector's Prize.
Kelly, W. W.—1903, Chancellor's Prize.
Landau, Miss R. Lewis—1895, Chancellor's Prize.
Laurie, James, B.A.—1890, "Nelson" Gold Medal.
Latour, Andre—1878, Final Examination, Prize.
Longeway, A. F.—1883, Botany, Prize. 1884, Practical Anatomy, Senior Prize. 1885, Primary Examination, "David" Scholarship. 1886, Final Examination, "Wood" Gold Medal; "Nelson" Gold Medal.
Lopez, A. C.—1900, Chancellor's Prize.
Lucas, S. L.—1903, Practical Anatomy, Junior Prize. Histology, Prize. 1904, "David" Medal.
Macdonald, Miss Jessie Helen, B.A.—1894, Practical Anatomy, Junior Prize. 1897, Chancellor's Prize.
Mason, E. G.—1898, Junior Dissector's Prize. 1899, Histology, Prize. Practical Anatomy, Senior Prize.
Mayner, A. E.—1889, "David" Silver Medal. 1900, Chancellor's Prize.
Meagher, Hugh A.—1876, Practical Anatomy, Senior Prize.
Mitchell, Homer E.—1876, Practical Anatomy, Junior Prize. 1878, Primary Examination, Prize. Practical Anatomy, Special Prize. 1878, Final Examination, "Wood" Gold Medal.
McGovern, J. J.—1902, "David" Silver Medal. 1904, "Nelson" Gold Medal.
McGregor, T. D.—1897, Senior Dissector's Prize.
McGregor, James—1900, 1st year Practical Anatomy. 1902, "Nelson" Gold Medal. 1902, "Wood" Gold Medal.
McIntyre, T. D.—1895, Junior Practical Anatomy, Prize.
Mullen, J. J.—1901, Senior Anatomy Prize.
Nelson, George W.—1878, Practical Anatomy, Senior Prize. 1879, Final Examination, Prize.
Norton, F. A.—1904, Junior Anatomy Prize. 1905, Senior Anatomy Prize. 1905, "David" Silver Medal.
Nichol, T. S.—1885, Practical Anatomy, Senior Prize.
Nichol, F. C.—1897, Histology, Prize.
Opzoomer, W.—1895, Senior Practical Anatomy Prize. 1897, "Nelson" Gold Medal.
Palmer, Joseph L.—1873, Practical Anatomy, Junior Prize.
Pickel, F. H.—1886, Practical Anatomy, Senior Prize. 1888, Final Examination, "Wood" Gold Medal; "Nelson" Gold Medal.
Planche, B. A.—1899, Practical Anatomy, Junior Prize.

Purvis, J. W. F.—1890, Practical Anatomy, Senior Prize. 1895, Final Examination, Chancellor's Prize.
Robinson, B. J. A.—1899, Chancellor's Prize.
Saunders, Jabez E.—1881, Botany, Prize. 1882, Primary Examination, "David" Scholarship. 1885. Chancellor's Prize.
Shaw, George Begg—1873, Primary Examination, Prize. Physiology, Prize.
Ship, S. S.—1903, Practical Anatomy, Junior Prize.
Sirois, E.—1880, Practical Anatomy, Senior Prize. 1883, Final Examination, Chancellor's Prize.
Smiley, T. B.—1890, Practical Anatomy, Junior Prize. 1891, Practical Anatomy, Senior Prize. 1892, Botany, Prize. 1893, "David" Silver Medal, "Wood" Gold Medal.
Smillie, Ninian C.—1879, Practical Anatomy, Junior. Botany, Prize. 1880, Practical Anatomy, Senior Prize. 1882, Final Examination, Chancellor's Prize.
Spendlove, Frank M. R.—1878, Practical Anatomy, Junior Prize. 1879, Practical Anatomy, Senior Prize. 1880, Primary Examination, Prize. 1881, Final Examination, "Wood" Gold Medal.
Still, W. H.—1900, Histology, Prize.
Sutherland, E. L.—1896, Junior Dissector's Prize. 1897, "David" Silver Medal. 1899, "Wood" Gold Medal, "Nelson" Gold Medal.
Tomkins, E. A.—1901, Chancellor's Prize.
Towle, W. B.—1889, Chancellor's Prize.
Vidal, C. E. K.—1886, Botany Prize. Practical Anatomy, Junior Prize. Practical Anatomy, Senior Prize. 1890, "Wood" Gold Medal.
Villard, Paul.—1905, Chancellor's Prize.
Watier, F. E.—1904, Final Examination, Chancellor's Prize.
Wilkinson, F. L.—1898, Senior Dissector's Prize.
Wilson, Robert E.—1881. Final Examination, Prize.
Wilson, W. E.—1891, Botany, Prize. 1892, Primary Examination, "David" Medal. 1893, Chancellor's Prize, "Nelson" Gold Medal.
Wood, Casey A.—1876, Primary Examination, Prize. 1877, Final Examination, Prize.
Woods, C. R.—1880, Botany, Prize. 1881, Chancellor's Prize.
Young, William.—1875, Practical Anatomy, Junior Prize. 1877, Primary Examination, Prize. 1878, Final Examination, Prize.

# GRADUATES.

| | | |
|---|---|---|
| Abbott, Maude E., B.A. | Montreal, Que. | 1894 |
| Addison, E. J. | Marianette, Wis. | 1896 |
| Allan, J. L. | Montreal, Que. | 1898 |
| Ansell, Aaron | | 1878 |
| ‡Anderson, Francis O. | Montreal, Que. | 1900 |
| ‡Aris, Fred'k. Wm. | London, Eng. | 1905 |
| †Armstrong, George E. | Montreal, Que. | 1879 |
| ‡Armstrong, C. H. B. | Kingston, Jamaica, W.I. | 1894 |
| †Austin, F. J. | Sherbrooke, Que. | 1898 |
| †Balcom, G. A. | | 1882 |
| Ball, Charles Dexter | St. Ana, Cal. | 1884 |
| Bannerman, T. | Montreal, Que. | 1895 |
| Barrett, R. F. | 922 Broadway, So. Boston, Mass. | 1904 |
| †Baynes, D., M.A., L.R.C.P. Edin | Copley Sq. Hotel, London, Eng. | 1877 |
| ‡Bishop, Heber, B.A. | Boston, Mass. | 1882 |
| Belle, Charles Raphael | | 1878 |
| †Bell, W. R. | | 1892 |
| Bell, W. D. M. | Ottawa, Ont. | 1882 |
| Benny, J. J. | Montreal, Que. | 1896 |
| Blackmer, Rollin Clinton | St. Louis, Mo. | 1884 |
| Blanchette, A. | Worcester, Mass. | 1892 |
| †Borden, F. W., Sir | Ottawa, Ont. | 1898 |
| Briggs, G. W. | Montreal, Que. | 1904 |
| †Brodie, J. | Honolulu, Sandwich Islands | 1879 |
| ‡Bronstorph, Ernest | Kingston, Jamaica, W.I. | 1884 |
| Brown, S. S. | Montreal, Que. | 1901 |
| Brymer, C. C. | Montreal, Que. | 1895 |
| ‡Burnett, Wm. | | 1882 |
| Byers, H. W. | Montreal, Que. | 1904 |
| †Cameron, J. C., M.R.C.P.I. | Montreal, Que. | 1881 |
| Cameron, J. W. | 663 Main St., Buffalo, N. Y. | 1882 |
| Cantin, N. G. | St. Romuald, Que. | 1894 |
| †Cartier, A. P. | St. Madeline, Que. | 1895 |
| ‡Caswell, James Albert | Hampstead, N.B. | 1883 |
| Cass, C. M. | London, Eng. | 1902 |
| Cass, W. M. | Egremont, Cumberland, Eng. | 1897 |
| ‡Chandler, Henry B. | 34½ Beacon St., Boston. | 1880 |
| †Cholette, H. | St. Justin de Newton, Que. | 1895 |
| Christie, C. H. | Montreal, Que. | 1900 |
| Clarke, L. M. | Kingston, Jamaica, W. I. | 1901 |
| Clarke, Arnold | | 1901 |

† Ad eundem. ‡ Medal.

| | | |
|---|---|---|
| Cowley, D. K. H. | Granby, Que. | 1902 |
| Cunningham, R. Boyd. | Montreal, Que. | 1905 |
| Cunningham, Henry S. | | 1872 |
| ‡Cunin, Miss Josephine | Montreal, Que. | 1895 |
| Currie, Margaret J. | Montreal, Que. | 1900 |
| Crevier, D. | St. Anicet, Que. | 1892 |
| Crutchlow, C. F. | Montreal, Que. | 1904 |
| Davis, J. W. | Baden-Powell Constabulary, South Africa | 1900 |
| DeMoulpied, Walter | Hemmingford, Que. | 1881 |
| Denny, H. E. | Langford, Cumberland Co., Eng. | 1894 |
| Desilets, Philip A. | | 1872 |
| ‡Donnelly, T. F., B.A. | New Carlisle, Que. | 1904 |
| Dubuc, Godfroi | | 1873 |
| Dubé, Philip | Quebec, Que. | 1880 |
| Duclos, E. A. | | 1874 |
| ‡Edwards, J. J. | Spanishtown, Jamaica | 1891 |
| ‡Elliott, Chas. E. | Quebec, Que. | 1889 |
| Empson, John | Knack ma Cree, Milborne Port, England | 1897 |
| ‡England, F. R. | Montreal, Que. | 1885 |
| ‡Fairfield, Wm. E. | Green Bay, Wis. | 1887 |
| ‡Fisk, Geo. | Montreal, Que. | 1894 |
| Foley, Leslie J. | Montreal, Que. | 1880 |
| Fontaine, Isaac | | 1873 |
| Ford, A. McD. | Montreal, Que. | 1898 |
| Francis, John | Jeremie, Hayti, W. I. | 1898 |
| ‡Franckum, James | Montreal, Que. | 1903 |
| Freleigh, Edgar O'B. | Stillwater, Minn., U.S. | 1886 |
| Fyfe, Miss Mary | Montreal, Que. | 1896 |
| †Fuller, Wm. | Grand Rapids, Mich. | 1875 |
| Gale, E. G. | Quebec City, Que. | 1902 |
| Gale, George Goldworthy | Quebec, Que. | 1879 |
| †Gardner, Wm. | Montreal, Que. | 1872 |
| Gernon, George Oliver | St. Genevieve, Que. | 1879 |
| Gellatly, George Wilkie | Montreal, Que. | 1905 |
| Gill, Louis Henry Ulric | Drummondville, Que. | 1880 |
| Gill, Fred'k D. | St. Johns, Nfld. | 1905 |
| Gillard, Clarence R., M.R.C.S., L.S.A. | Montreal, Que. | 1885 |
| ‡Gillespie, J. A. | Cumberland, B.C. | 1901 |
| Goltman, Maximilian | Memphis, Tenn. | 1892 |
| ‡Gomery, Miss Minnie | Montreal | 1898 |
| Groulx, V. J. | Valleyfield, Que. | 1888 |
| Hackett, F. J. | Montreal, Que. | 1892 |
| ‡Hall, Geo. | Montreal, Que. | 1896 |
| Hamilton, J. A. | Tacoma, Wash., U.S. | 1900 |

† Ad eundem. ‡ Medal.

| | | |
|---|---|---|
| Hansford, Miss Marion | Montreal, Que. | 1898 |
| Hart, David A. | Montreal, Que. | 1874 |
| Harry, A. | Kingston, Jamaica, W.I. | 1894 |
| Hayes, Thomas Edward | | 1877 |
| Hayes, G. L. T. | Graniteville, Vt. | 1895 |
| Henriques, H. B. | Jamaica, B.W.I. | 1901 |
| Internoscia, Antonio | Montreal, Que. | 1895 |
| Jack, J. McPherson | Montreal, Que. | 1889 |
| Jackson, T. H. | Montreal, Que. | 1899 |
| Jenkins, James Fred. Theodore | Los Angeles, Cal. | 1879 |
| Judd, David Hiram | Dorchester, Mass. | 1890 |
| Kannon, Matthew Mark | Los Angeles, Cal. | 1879 |
| Kelly, W. W. | Flintville, Wis. | 1903 |
| Labrie, Edmond | Point Levis, Que. | 1880 |
| Lafontaine, Charles | | 1874 |
| Lafontaine, Charles Henry | Chambly, Que. | 1884 |
| ‡Landau, Miss Regina Lewis | Montreal, Que. | 1895 |
| Lanouette, Joseph E. | Manchester, N.H. | 1872 |
| Lanoie, J. E. E. | St. Anne, Que. | 1893 |
| Latour, André A. | Montreal, Que. | 1872 |
| Lachlin, C. A. | England | 1890 |
| ‡Laurie, James, B.A. | Quebec, Que. | 1890 |
| Laurin, Theophile | | 1899 |
| Lawrence, Frederick C. | | 1873 |
| Lawson, Elston H. | Montreal, Que. | 1905 |
| Lemieux, Israel | Great Falls, Mont. | 1886 |
| Leprohon, Rudolphe Edgar | Montreal | 1879 |
| Lewis, Gustave | Montreal, Que. | 1895 |
| Lightstone, Hyman | Montreal, Que. | 1901 |
| ‡Longeway, Albert F. | Great Falls, Mont. | 1886 |
| Lopez, Albert C. | Mandeville, Jamaica | 1900 |
| Lorrigan, Miss Catherine | Alleghany, Penn | 1897 |
| MacKerrow, Horace G. | | 1905 |
| Macrae, Douglas D. | Montreal, Que. | 1893 |
| Macdougal, C. A. | Farnham, Que. | 1899 |
| †McConnell, J. Bradford | Montreal, Que. | 1875 |
| McDonald, Joseph William Dugald | Manchester, N.H. | 1878 |
| McDonald, Alexander | Montreal, Que. | 1900 |
| Macdonald, Miss I. Helen, B.A. | Montreal, Que. | 1897 |
| McIntyre, John | Butte, Mont. | 1898 |
| McKay, John M. | Montreal, Que. | 1874 |
| McKay, William Albert | Grenville, Que. | 1884 |
| McGillis, William C. | | 1881 |
| ‡McGovern, J. J. | Danville, Que. | 1904 |
| McGregor, D. A. | Fournier, Ont. | 1904 |
| ‡McGregor, Jas. | | 1902 |
| McLeod, John | | 1877 |

† Ad eundem. ‡ Medal.

| | | |
|---|---|---|
| McEvoy, T. | Montreal, Que. | 1897 |
| McNally, S. J. | Campbell's Bay, Que. | 1893 |
| McNally, W. J. | Barachois de Malbaie, Gaspé, Que. | 1894 |
| McRae, Robert Henry | Montreal, Que. | 1905 |
| Maguire, B. D. | | 1873 |
| Mann, F. W. | Houlton, Me. | 1900 |
| Mason, Wm. | | 1895 |
| Mayner, A. E., 89 East Street | Kingston, Jamaica, W.I. | 1890 |
| Meikle, R. H. | Hartford, Vt. | 1897 |
| Mignault, H. A. | St. Hyacinthe, Que. | 1888 |
| Minckler, Philo E. | | 1883 |
| ‡Mitchell, Homer Elihu | Bedford, Que. | 1878 |
| Montgomery, T. A., B.A. | Beebe Plain, Que. | 1894 |
| Morison, D. W. | Montreal, Que. | 1903 |
| Moseley, Arthur J. | | 1905 |
| Mullin, B. M. | St. Mary's, N.B. | 1893 |
| Murray, D. L. | Ulverton, Que. | 1901 |
| Nelson, Wolfred D. E., | Astor House, New York | 1872 |
| Newman, A. H. | Montreal, Que. | 1898 |
| Nichol, William G. | Montreal, Que. | 1886 |
| Nichol, Thos. Scott. | Montreal, Que. | 1889 |
| ‡Opzoomer, Wm., M.R.C.S.E. | Montreal, Que. | 1897 |
| Outwater, S. W. | Philipsburg, Que. | 1892 |
| Paddyfoot, J. A. | Kingston, Jamaica. W.I. | 1898 |
| Parent, Charles A. | San Francisco, Cal. | 1885 |
| Patterson, William | Montreal, Que. | 1884 |
| Patton, Angus O. | Caughnawaga, Que. | 1886 |
| Peltier, Gaspard U. | Cohoes, N.Y. | 1873 |
| †Perrigo, James, M.A., M.R.C.S. | Montreal, Que. | 1873 |
| Phelan, A. E. | | 1877 |
| Phillips, D. J. | 1541 Thompson St., Philadelphia, Pa. | 1901 |
| ‡Pickel, F. H. | Sweetsburgh, Que. | 1888 |
| Pitman, M. W. H. | | 1905 |
| Pidgeon, Joseph A. | Percé, Gaspé Co., Que. | 1875 |
| *Proudfoot, Alexander | Chicago, Ill. | 1877 |
| Purvis, J. W. F. | Lynn, Ont. | 1892 |
| Quinones, Eleuterio | | 1881 |
| †Reddy, H. L., B.A., L.R.C.P. London | Montreal, Que. | 1896 |
| Richer, A. J. | Montreal, Que. | 1892 |
| Richards, F. C. | | 1903 |
| Riopel, Rev. Solomon, M.A. | Valcartier, Que. | 1884 |
| Ritchie, Miss Grace, B.A. | Montreal, Que. | 1891 |
| Roach, W. F. | Montreal, Que. | 1902 |
| †Robillard, Edmond, M.D. | Montreal, Que. | 1873 |

† Ad eundem. ‡ Medal.

| | | |
|---|---|---|
| †Robinson, B. J. A. | Jamaica, W.I. | 1899 |
| Rodger, D. A. | Cowansville, Que. | 1897 |
| Rohlehr, J. M. | New Amsterdan, B. Guiana | 1887 |
| Rose, Edward | St. Anicet, Que. | 1874 |
| †Ross, G. T. | Montreal, Que. | 1896 |
| Runnells, Mary A. | Milton, Que. | 1900 |
| Saunders, Rev. Jabez B. | | 1885 |
| Schacher, Nathan | Montreal, Que. | 1905 |
| Sheridan, John | Montreal, Que. | 1878 |
| Silverman, A. H. | Montreal, Que. | 1905 |
| †Simpson, Thomas | Montreal, Que. | 1881 |
| Sirois, Euchariste | Marburg, Queensland, Australia | 1883 |
| Slack, George F., M.R.C.S., Eng. | West Farnham, Que. | 1873 |
| ‡Smillie, N. C. | Montreal, Que. | 1882 |
| Smiley, W. N. | Rawdon, Que. | 1890 |
| ‡Smiley, T. B. | Mount Vernon, Dakota... | 1893 |
| †Smith, A. Lapthorn, M.R.C.S.E. | Montreal, Que. | 1876 |
| †Smith, A. C. | Newcastle, N.B. | 1889 |
| Smith, C. W., 20 Brooke Road | Stoke Newington, London, Eng. | 1902 |
| ‡Spendlove, Frank | Montreal, Que. | 1881 |
| †Stevens, A. D. | Dunham, Que. | 1882 |
| †Stewart, W. G., B.A. | Montreal, Que. | 1896 |
| Still, W. H. | Montreal, Que. | 1902 |
| Stimpson, R. M. | Jamaica, W.I. | 1898 |
| †Stirling, John W. | Montreal, Que. | 1898 |
| ‡Sutherland, E. L. | Sheridan, Montana. | 1899 |
| St. Germain, Valmore | | 1878 |
| Sylvestre, F. | Montreal, Que. | 1892 |
| Tanguay, George B. | Montreal, Que. | 1890 |
| Tanguay, J. E. | Providence, R.I. | 1899 |
| Tatley, Herbert, L.R.C.P. and S., Edin. | Montreal Que. | 1891 |
| Taylor, F. | Middleton, Mich. | 1888 |
| Tetrault, Francis Joseph | Orange, N.J. | 1880 |
| Thomas, S. A. A. | | 1888 |
| Tomkins, E. A. | Richmond, Que. | 1901 |
| Towley, W. Bentley | Wilcannia, New South Wales | 1889 |
| Trenholme, G. A. | Eaton, Que. | 1894 |
| Tutill, Geo. | | 1901 |
| Villard, Paul | Montreal, Que. | 1905 |
| Vennor, Victor John A. | | 1874 |
| ‡Vidal, C. E. K. | Neilhart, Mont. | 1890 |
| Vartanian, Melik | | 1905 |
| Walker, R. A. | Menominee, Mich. | 1895 |
| Warren, J. L. | Montreal, Que. | 1892 |

† Ad eundem. ‡ Medal.

| | | |
|---|---|---|
| Watier, F. E. | Montreal, Que. | 1904 |
| Webb, W. J. | 2263 Massachusetts Avenue, Cambridge, Mass. | 1897 |
| White, W. H. | Montreal, Que. | 1905 |
| †Wilkins, Geo., M.R.C.S., Eng. | Montreal, Que. | 1871 |
| Wilson, Robert H. | Montreal, Que. | 1881 |
| ‡Wilson, W. E. | St. Ann's, Jamaica, W.I. | 1893 |
| Wilson, A. E. | Montreal, Que. | 1904 |
| Wood, Casey A., 103 East Adams St. | Chicago, Ill. | 1877 |
| Woods, C. R. | Ujjain, India | 1891 |

† Ad eundem. ‡ Medal.

## LIST OF DECEASED GRADUATES

### BISHOP'S COLLEGE.

| | |
|---|---|
| *Benoit, Frederick | 1875 |
| *Boyd, Robert Hamilton | 1877 |
| *Brandt, E. R. M. | 1892 |
| *Campbell, F. W., D.C.L., L.R.C.P., London | 1872 |
| *Campbell, Rollo | 1887 |
| *Clendinneng, Edythe H. | 1895 |
| *Comeau, C. E. D. | 1879 |
| *Costigan, Robert | 1874 |
| *Curtis, Horatio N. | 1887 |
| *†David, A. H., L.R.C.S.E. | 1872 |
| *Davis, J. T. | 1875 |
| *Drummond, William Henry | 1884 |
| *Eneas, Jeremiah | 1874 |
| *Fuller, Herbert Cooper | 1878 |
| *Garraty, F. J. | 1904 |
| *†Gibson, J. B. | 1882 |
| *‡Gaherty, Denis D. | 1879 |
| *†Godfrey, Robert T. | 1872 |
| *Godfrey, Robert Frederick | 1873 |
| *Gore, John Flint | 1884 |
| *Gravely, Edward A. | 1877 |
| *Hingston, Sir Wm. H., L.R.C.P.E. | 1872 |
| *†Kennedy, R. A. | 1872 |
| *†Kollmyer, A. H. | 1873 |
| *Kerry, Anthony | 1878 |
| *†Leprohon, Jean Lukin | 1872 |
| *McDonald, William | 1873 |
| *McDuffie, John W. | 1878 |
| *Marshall, Charles | 1879 |
| *Nelson, George Washington | 1879 |
| *Ogilvie, James, M.R.C.S.E. | 1884 |
| *Prendergast, W. | 1882 |
| *†Robitaille, Hon. Theodore | 1882 |
| *†Rodger, T. A. | 1888 |
| *Sabourin, Elzear | 1878 |
| *Scott, Albert Page | 1887 |
| *Shaw, George Begg | 1873 |
| *Shee, Patrick Arthur | 1874 |
| *Sheridan, Terrance | 1876 |
| *†Tabb, S. E. | 1872 |
| *†Trenholme, E. H. | 1872 |
| *Webber, Richard N. | 1872 |
| *Young, William | 1878 |

# GRADUATES.

SESSION 1910-1911.

## PASSED FOR THE DEGREE OF BACHELOR OF ARTS.

*(In alphabetical order.)*

MEN.

Angus, Henry Forbes
Armstrong, Thomas Edgar
Beckwith, Harold Arthur
Bissett, John Edwin
Boyd, James Bruce
Bridges, James Winfred
Cherry, William Mcfie
Clearihue, Joseph Badenoch
Cook, Geoffrey Hay
Currie, George Selkirk
Davidson, Roy Ashton
Dewey, Alexander Gordon
Digby, Reginald Winnett
Dixon, Shirley Greenshields
Douglas, Hamnet Townley
Dowd, Norman Stewart
Fletcher, Gilbert Hyndman
Gibbins, Gwynn Gilbert
Gillmor, Daniel Percy
Hannah, George Kissam
Heney, Theodore Bigelow
Herschorn, Hyman Ernest
Irving, William Gordon
Jacobs, Joseph Herbert
Kerry, John
King, Alfred Nelson
Kolber, Joseph
Knowling, Albert James
Larivière, Henri Alfred
Lindsay, Gordon
Livinson, Abraham Jacob
Lochhead, Allan Grant
Maclean, Allison Reginald Murray

Macleod, John Virgil
Maass, Otto
Meadows, Stanley Dwight
Morris, John Frederick
Moyse, Robert Edwin
Newcombe, Edmund Freeman
Rennoldson, David Benedict
Scott, Arthur Alexander
Selman, Gordon Samuel
Tannenbaum, Laurence
Thomas, Owen James
Thompson, Andrew Rutherford
Wanklyn, Andrew Angus
Warburton, Hugh Cantley
Weir, George

WOMEN.

Browne, Alice Gladys
Chandler, Rena Fielding Forsyth
Craig, Evelyn
Dixon, Margaret
Ellison, Myra King
Greer, Jemima Lawson
Grimes, Evie Mina
Hammond, Doris Jane Seymour
Hayden, Mabel Gertrude
Hill, Anna Kathryn
Howell, Lucy McLellan
Hulburd, Ethel Elizabeth
Letvinoff, Lena
MacLeod, Hazel Elizabeth
Macnaughton, Jean Lavinia Musgrave
Macqueen, Emma Harper
Murchison, Hazel Irene
Olmstead, Helen Frederica
Paterson, Edith Louise
Paterson-Smyth, Marjorie
Reid, Florence Charlotte
Robertson, Mildred Hope
Schafheitlin, Anna
Smith, Margaret Ann
Vanvliet, Leonora M.
Willett, Jane Trevenen
Williams, Marion Florence
Wilson, Winifred Edith

**PASSED FOR THE DEGREE OF BACHELOR OF SCIENCE IN ARTS.**

Merrill, Arthur Joseph

**PASSED FOR THE DEGREE OF BACHELOR OF MUSIC.**

Harvie, Agnes Hamilton

## PASSED FOR THE DEGREE OF BACHELOR OF SCIENCE

(Applied Science.)

(*In alphabetical order.*)

Explanation of letters following the names:—

| | | | | |
|---|---|---|---|---|
| (Ar.) | Graduate | in the | Department of | Architectural Engineering |
| (Ch.) | " | " | " | Chemistry |
| (Ch. Eng.) | " | " | " | Chemical Engineering |
| (Ci.) | " | " | " | Civil Engineering |
| (El.) | " | " | " | Electrical Engineering |
| (Me.) | " | " | " | Mechanical Engineering |
| (Met.) | " | " | " | Metallurgy |
| (Met. Engt.) | " | " | " | Metallurgical Engineering |
| (Mi.) | " | " | " | Mining Engineering |
| (Rys) | " | " | " | Railways. |

Alford, John Newton (El.)
Allen, Alexander David (El.)
Alward, Ernest Turnbull (El.)
Anderson, Alexander Alderson (Ci.)
Anderson, Sedley Cantrell (Ci.)
Archibald, Ernest Bryden (El.)
Bacon, Thomas Hamilton (Ci.)
Bennet, George Arthur (Ci.)
Boast, Richard Griffith (Ci.)
Boyd, Gardiner Mossom (Mi.)
Boyd, Laurence Chadwick (Ch. Eng.)
Briercliffe, Henry Carle Dyson (Me.)
Brydone—Jack, Herbert Disbrow (Ci.)
Callander, Delmer Wallace (El.)
Carnwath, James (Ci.)
Child, Cyril George (Ci.)
Clark, Raymond Brooke (Ci.)
Collier, Harold Fetherstonhaugh (Ci.)
Cook, Archibald Stuart (Me.)
Cram, Haldane Rodgers (Ci.)
DeGruchy, Charles Southwell (Ci.)
De Hart, Joseph Bertram (Mi.)
Dennison, Lawrence George, B.A. (El.)
Dodd, Geoffrey Johnstone (Ci.)
Earle, Harry (Ci.)
Eldridge, Gardner Smith (Mi.)
Evans, Alfred James Laurence (Mi.)
Falcke, Joseph (El.)
Forbes, Duncan Stuart (Rys.)
Fortier, Frank Albert (Mi.)
Fox, Charles Allen (Mi.)
Fraser, Harold Alexander (Ci.)
Galloway, John Davidson (Mi.)
Gillies, Glyde Campbell (Mi.)
Gnaedinger, Cedric Walter (Me.)
Goodeve, Leslie Charles (Ci.)

Gregory, Philip Stancliffe (El.)
Hargraft, Stuart Alex. ((Me.)
Hooper, John Harold (Ci.)
Hudson, George Matheson (El.)
Irwin, William Eric Crommelin (El.)
Ivey, Charles Herbert (El.)
Johnston, Robin Louis (Ci.)
Kearney, Graham (El.)
Kelly, Albert John (Ci.)
Kingsley, Edward Robert (Rys.)
Koch, Ernest Christian (Mi.)
LaForest, Guy Beauvais (Met.)
Linagh, Ronald King (Me.)
Little, Harold Robert (Ar.)
Macaulay, James Robert (Ch.)
Macdonald, Jeremiah James (Ci.)
McLeod, Allan Cameron (Rys.)
Mauer, Eli (Ci.)
Mellican, Alonzo Gordon (El.)
Motyer, Arthur John (El.)
Murphy, William Herbert (El.)
Murray, George Ernest (Mi.)
Nares, Basil Llewellyn (Ci.)
Nares, Hilary George (El.)
O'Leary, Frederick James (Ci.)
Oliver, Stuart Erskine (Ci.)
Oughtred, Lawrence William (Mi.)
Ovalle, Nestor Keith (El.)
Parker Stanley Davidson (Ci.)
Planche, Clifford Carlyle (Ci.)
Pope, Maurice (Ci.)
Porter, Cecil George (Met. Eng.)
Ray, Hugh Percy (Ci.)
Richardson, Creighton Elliot (Ci.)
Robertson, Gilbert (Me.)
Ross, Allan Crawford (El.)
Ross, Wallace Gordon (Mi.)
Ryan, Frederick George (Ci.)
Scott, Robert William (El.)
Scrivener, Robert Massey (El.)
Smith, Willard Roy (Rys.)
Smith, William Plumb (El.)
Staveley, Walter Darley (El.)
Stevenson, Edward Peel (Mi.)
Stuart, Alexander Graham (Mi.)
Thorne, Harvey (Ci.)
Underhill, Frederic Clare (Ci.)
Vinet, J. A. Eugène (El.)
Walcott, William Hollingsed (Ci.)
Walker, George Henry Pearson (Ch. Eng.)
Watson, Hugh Monroe (Ci.)
Webb, Edward Mitchell (Me.)
White, James Alex. Gordon (Mi.)
Whyte, Harold Eustace (Ci.)

Willis, Frank Strachan (Mi.)
Willis, George Christopher (Ci.)
Wilson, Clifford St. John (Ci.)
Wilson, Robert Starr Leigh (Ci.)
Wilson, Thomas Edgar, B.A. (El.)
Wood, Douglas Fletcher (Ci.)
Wood, Harold Whitney (El.)
Wood, James Russell (Ci.)
Wünsch, Donald Frederick Sandys (Mi)

## PASSED FOR THE DEGREE OF BACHELOR OF ARCHITECTURE.

Hawkins, Stuart Schofield
MacDonald, George Heath
Peck, Hugh A.
Richardson, Alan Irving

## PASSED FOR THE DEGREE OF BACHELOR OF CIVIL LAW.

(*In alphabetical order.*)

Alexander, George Leonard
Archibald, Kenneth, B.A.
Creswell, Harris James, B.A.
Fisher, Wiliam Chauncey
Fitch, Louis, B.A.
Fleet, Charles Andrew Robertson, B.A.
Goldenberg, Bernard
Hastings, William Roy, B.A.
Jacobs, Lyon William
Macdonald, James, M.A. (Queen's)
Merrill, Walter Alfred, B.A. (Laval)
Nicholson, Demetrius Nicholas
Owens, Thomas Sargent, B.A. (Laval)
Shanks, Walter Robert Lorimer, B.A.
Stockwell, Ralph Frederick, B.A.
Walsh, Joseph Christopher Barry, B.A. (Laval)
Waterston, Edward James, B.A.

## PASSED FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE.

(*In alphabetical order.*)

Brittain, William Harold
Buck, Frank Ebenezer
Elwell, Royston William Dunlop
Gorman, Raymond Paddock
Grindley, Frederick Hugh
Grisdale, Frank Sydney
Innes, Robert
Reid, William John
Savage, Alfred
Spencer, Charles Martyn

Straight, Ernest Manzer
Summerby, Robert
Sweet, Carl
Williams, Charles McAllister
Wood, Gordon William

## PASSED FOR THE DEGREE OF DOCTOR IN DENTAL SCIENCE

Aronson, Aaron Mitchell
Cunningham, Rutherford Boyd, M.D.
Glickman, Abraham

## PASSED FOR THE DEGREE OF DOCTOR OF MEDICINE AND MASTER OF SURGERY.

(*Names alphabetically arranged.*)

Bancroft, Aubrey Glyne, Bridgetown, Barbados
Bauld, Wiliam Alfred Gordon, B.A., Halifax N.S.
Bell, Dudley Johnson, M.D., Granville, Yukon
Bourne, Wesley, Pollards, St. Phillips, Barbados
Campbell Archibald Donald, Glencoe, Ont.
Canegata, David Cornelius, B.A., Christiansted, St.Croix
Carnell, Arthur Henry, St. John's, Newfoundland
Clarke, Thomas Lisle Evelyn, Barbados
Clouston, Howard Rae, B.A., Huntingdon, Que.
Dryden Thaddeus Alexander, Highgate, Jamaica
Falconer, Ernest Henry, Prentice, Wisconsin
Furness, Arthur Wellington, Vernon, P.E.I.
Geggie, Harold James Gugy, Beauport, Que.
Gillespie, John Halliday, Morrisburg, Ont.
Gliddon, William Osborne, B.A., Ottawa, Ont.
Gray, Edwin Herbert, B.A., B.D., Montreal West, Que.
Hamilton, Clarence Dickinson, Cornwall, Ont.
Havey, Harry Bernard, B.A., Digby, N.S.
Irven, John James, Montreal, Que.
Kaine, William Joseph, A.B., Brattleboro, Vermont
Kearney, Garnet Harvey
Legault, Joseph Horace, Ottawa, Ont.
McGibbon, Roy Hosmer, Montreal, Que.
Marcuse, Otto, B.A., Montreal, Que.
Mavety, John LeRoy, B.A., Montreal, Que.
Reid, Charles Martin, M.D., Jamaica, B.W.I.
Roberts, Moses Chesley, Brigus, Newfoundland
Shannon, William Lloyd, B.A., Vancouver, B.C.
Stewart, John Donald, Calgary, Alta.
Taylor, Samuel Wesley, B.A., Taylor Village, N.B.
Vigneux, Maurice Joseph, Nelson, B.C.

## ADMITTED AD EUNDEM.

(1) To the Degree of Bachelor of Science.

Ball, Harry Standish, Associate South African School of Mines.
Matheson, Howard Watson, B.Sc. (Dalhousie).

(2) To the Degree of Bachelor of Music.

Mills, Charles Henry, Mus. Bach.

(3) To the Degree of Doctor of Medicine.

Walter William Chipman, M.D. (Edin.), F.R.S.C.E., Professor of Gynæcology, McGill University
Henry E. Denny, D.V.S. (McGill), M.D. (Bishop's).
Thomas Albert Starkey, M.B. (Lond.), D.P.H., F.R.S.I., Professor of Hygiene, McGill University
J. W. Stirling, M.B. (Edin.), Professor of Ophthalmology,, McGill University

(4) To the Degree of Doctor in Dental Science.

David James Berwick, D.D.S. (Bishop's), Professor of Operative Dentistry and Chairman of the Dental Executive, McGill University

## ADMITTED TO THE DEGREE OF MASTER OF ARTS.

Brittain, Isabel E., B.A.
Cockfield, Harry Reid, B.A.
Tremblay, Joseph Adélard, B.A.
Wilson, Alice Muriel, B.A.

## ADMITTED TO THE DEGREE OF MASTER OF SCIENCE.

Ball, Harry Standish (A.S.A.S.M.)
Campbell, Edmund Ernest, B.Sc.
Cox, John Raffles, B.Sc. mi.
Dick, William Joseph, B.Sc.
Drysdale, George Arrowsmith, B.Sc.
Gibbins, Gwynn Gilbert, B.Sc. mi.
Gillies, George Ackland, B.Sc. mi.
Harris, Norman Charles, B.Sc. mech.
Matheson, Howard Watson, B.Sc. (Dalhousie).
Munn, D Walter, B.Sc., M.A.
Wheeler, Nathaniel Ernest, B.Sc. (Colby)

## ADMITTED TO DOCTORS' DEGREES.

### (1) DOCTORS OF MUSIC.

Charles Henry Mills, Mus. Bach. (Edin.), Professor of Music in the University of Illinois.

### (2) DOCTORS OF CIVIL LAW.

Hon. Edmund W. P. Guerin, B.A., B. C. L., Judge of the Superior Court, Montreal.

### (3) DOCTORS OF LAWS.

Right Hon. Sir Charles Fitzpatrick, D.L., C.M.G., Chief Justice of Canada.

Samuel Edward Dawson, Litt. D., F.R.S.C., C.M.G.
Rev. Jean Charlemagne Bracq, Litt. D., Professor of Modern Languages, Vassar College.
George William Parmelee, B.A., D.C.L., Secretary of the Protestant Committee of the Council of Public Instruction, Quebec.
Lewellys Franklin Barker, M.D., Professor of Medicine, Johns Hopkins University
William Thomas Councilman, M.D., LL.D., Professor of Pathology in Harvard University
Emmanuel Persillier Lachapelle, M.D. (Laval), Dean of the Faculty of Medicine, Laval University and President of the Quebec Provincial Board of Health
Archibald Byron Macallum, M.A., M.B., Ph.D., D.Sc., LL.D., F.R.S., Professor of Physiology and Physiological Chemistry, University of Toronto
Richard Andrews Reeve, B.A., M.D., LL.D., Professor of Ophthalmology and Otology, University of Toronto.
Allen John Smith, A.M., M.D., Professor of Pathology and Dean of the Medical Faculty of the University of Pennsylvania
John Stewart, M.D. (Edin.), F.R.C.S. (Edin.), Halifax, N.S.
John Collins Warren, M.D., LL.D., F.R.C.S. (Eng.), Ex-Professor of Surgery, Harvard University
Henry Esson Young, B.A., M. D., LL.D., Provincial Secretary and Minister of Education of the Province of British Columbia

# SCHOLARSHIPS AND EXHIBITIONS.

SESSION 1910-1911.

## FACULTY OF ARTS.

### I. Third Year Scholarships and Exhibitions.

#### (1). Scholarships. (Tenable for two years).

| Names of Scholars | Subjects of Examination. | Annual Value. |
|---|---|---|
| Murray, W. E. G. | English and Latin | $150.00 |
| French, B. St. G. | Latin and Greek | 150.00 |
| Gronin, J. | French and German | 150.00 |
| Couture, Armand P. | Mathematics and Physics | 150.00 |

#### (2). Exhibitions. (Tenable for one year).

| Names of Exhibitioners | Subjects of Examination. | Annual Value. |
|---|---|---|
| Babcock, C. E. | Economics | $100.00 |
| Mathewson, A. | " | 50.00 |
| Braeuer, M. A. } equal | English and French | 50.00 |
| Manny, Louise } equal | " " | 50.00 |
| Johnson, H. L. | Philosophy | 50.00 |

### Fourth Year Exhibition and Bursary.

| Name | Subject of Examination. | Value. |
|---|---|---|
| MacLean, A. R. M | Chemistry (Exhibition) | $150.00 |
| Bridges, J. W | Philosophy (Bursary) | 25.00 |

### II. Second Year Exhibitions and Bursaries.

#### (1). Exhibitions. (Tenable for one year).

| Names of Exhibitioners. | Subjects of Examination. | Value. |
|---|---|---|
| Group I. | | |
| Corbett, P. E. | French, Latin; English (minor) | $150.00 |
| Macnaughton, I. | Greek, Latin; English (minor) | 150.00 |
| Dewey, G. F. | English, Greek; Physics (minor) | 150.00 |
| Fritz, C. W. | Greek, Latin; Physics (minor) | 100.00 |
| MacSween, F. | English, German; Latin (minor) | 100.00 |
| Morison, M. | English, French; Latin (minor) | 75.00 |
| Mount, W. | English, German; Latin (minor) | 75.00 |
| Group II. | | |
| Silver, B. | Maths., Physics; Latin (minor) | 150.00 |
| Miller, I. A. | Maths., Physics; English (minor) | 150.00 |

## III. First Year Scholarships and Exhibitions.

### 1. Scholarships. (Tenable for two years).

| Names of Scholars (In order of Merit.) | Annual Value. |
|---|---|
| Meldrum, Isabel (Ottawa Collegiate Inst.), Hull, Que. | $300.00 |
| McCrudden, Harry E. (Westmount Academy), Montreal | 300.00 |
| Willis, Helen A. E. (Westbourne School), Toronto, Ont. | 300.00 |

### (2). Exhibitions (Tenable for one year).

| Names of Exhibitioners. (In order of Merit.) | Values. |
|---|---|
| Fry, Henry F. (Montreal High School), Montreal | $150.00 |
| Griffith, Harry R. (Montreal High School), Montreal | 150.00 |
| Warshawsky, Herman (Montreal High School), Montreal | 100.00 |
| Kittredge, Marjorie E. (Granby High School), Granby, Que. | 100.00 |
| Black, Caroline E. (Lachute Academy), Genoa, Que. | 100.00 |
| Hay, Margaret (Lachute Academy), Lachute, Que. | 100.00 |

# REGISTER OF STUDENTS.

## SESSION 1910-1911

## FACULTY OF ARTS

---

### FIRST YEAR.

*(McGill College)*

| NAME. | HOME ADDRESS. | WHERE LAST EDUCATED, |
|---|---|---|
| Armitage, Reginald Scott. | Sherbrooke, P.Q. | |
| Bates, Edward Stanley | Carleton Place, Ont. | |
| Beatty, Harry Chandler | Stanbridge East, P.Q. | Bedford Academy. |
| Beaupré, Gaston A. | Quebec, P.Q. | |
| Bernfeld, Max. | Montreal | Montreal High School. |
| Bernfeld, William. | Montreal | Montreal High School. |
| Birks, Henry Gifford | Montreal | Montreal High School. |
| Blair, Roy Jay. | Rockburn, P.Q. | Granby High School. |
| Blake, Muirson | London, Eng. | Military Coll., Richmond. |
| Bott, Harold. | Redditch, Eng. | Ormstown Academy. |
| Bradford, Walter Russell. | Granby, P.Q. | Granby High School. |
| Bramley-Moore, Alf. M.D. | Sea Dog Cove, N.B. | |
| Brooks, Edward Abbott | Montreal | Shortell's Academy. |
| Brooks, William Arthur | Indian Head, Sask. | Stanstead College. |
| Brown, Hal Macdonald | Montreal | Crichton School. |
| Browne, John Carlinde | Montreal | Montreal High School. |
| Burton, Garland Granter. | Greenspond, Nfld. | Methodist High School. |
| Caldwell, Arthur Bell | Shanty Bay, Ont. | |
| Cameron, Charles Munnis | Sydney, N.S. | Sydney Academy. |
| Cameron, Norman Scott | Winchester, Ont. | Winchester. |
| Campbell, D. J | McCrimmon, Ont. | Presbyterian College. |
| Casey, Leo A. | Montreal | Shortell's Academy. |
| Cauldwell, Albert L. | Westmount | Westmount Academy. |
| Choquette, J. Auguste | Quebec, P.Q. | |
| Chown, Henry Bruce | Winnipeg, Man. | Winnipeg Coll. Inst. |
| Cooper, Godfrey | Reading, Eng. | Birchington Kent, Eng. |
| Couture, Ernest. | Hull, P.Q. | Ottawa University. |
| Cushing, Eric A. | Westmount | Montreal High School. |
| Davis, Harry Bernard | Quebec, P.Q. | Shortell's Academy. |
| Davis, James F. | Montreal | |
| Denny, Joseph. | Westmount | French Methodist Inst. |
| Derby, Cecil Orvis. | Clarenceville, P.Q. | Stanstead College. |
| Devlin, Robert Paul. | Ottawa, Ont. | Toronto University. |
| Dodge, John Bigelow | Ste. Anne de Bellev | St. Mark's School. |
| Donaghue, David J. | Montreal | Presbyterian College. |
| Douglas, Cedric Stuart. | Waterloo, P.Q. | Waterloo Academy. |
| Duclos, Victor Eugene | Westmount | Bishop's College School. |
| Ellis, William James. | Brome, P.Q. | |
| England, Murray Galer. | Montreal | Montreal High School. |
| Evans, David John | Montreal | Glamorganshire City Sch. |
| Fairgrieve, Robert | London, Eng. | Congregational College. |

| NAME. | HOME ADDRESS. | WHERE LAST EDUCATED. |
|---|---|---|
| Farrell, Ralph G. | Montreal | |
| Fauteux, Leandre | Montreal | |
| Findlay, Eber Alva | Levis, P.Q. | High School of Quebec. |
| Finklestein, M. Philip | Montreal | Montreal High School. |
| Ford, Eric A. | Portneuf Sta., P.Q. | Gault Institute. |
| Fordon, Ralph | Detroit, Mich. | Detroit Central H. S. |
| Fowler, Frederick Gordon. | Redmerley, Eng. | Presbyterian College. |
| Fry, Henry Stevenson | Westmount | Montreal High School. |
| Gale, Royce Laberee | Waterville, P.Q. | Montreal High School. |
| Garber, Michael | Montreal | Hunter's Academy. |
| Gauthier, Leo Robert | Plattsburg, N.Y. | Plattsburg High School. |
| Gibb, Stewart H. | Montreal | Montreal High School. |
| Goodrich, Max. W. | Stanbridge Sta., P.Q | Presbyterian College. |
| Graham, Cyril Cuthbert | Ottawa, Ont | |
| Grandy, William M. | Garnish, Nfld. | Methodist College, Nfld. |
| Grant, James Henry | Nelson, B.C. | Loyola College. |
| Green, Charles Horace | Victoria, Australia. | St. Andrew's College. |
| Griffith, Harold Randall | Montreal | Montreal High School. |
| Griffith, Hugh B. | Montreal | |
| Guy, James Walter | Carbonear, Nfld. | Methodist College. |
| Hardwick, John | Portishead, Eng. | Presbyterian College. |
| Hemming, Henry Harold. | Montreal | Aldenham School Eng. |
| Henson, Ernest Frederic L. | Windsor, Eng. | Dunstable Grammar Sch. |
| Holden, Rufus Clement | Westmount | Westmount Academy. |
| Hovey, Rex William. | Sherbrooke, P.Q. | Sherbrooke High School. |
| Jenkins, Arthur Thomas. | Montreal | Milford Haven County Sc |
| Jess, John Andrew | Dromara, Ireland | Presbyterian College. |
| Johnston, Norman D. | Westmount | Westmount Academy. |
| Knowles, James Melville. | Westmount | Westmount Academy. |
| LeMay, Albert | Ottawa, Ont | Ottawa University. |
| Little, Robert | Montreal | Diocesan Theo. College. |
| MacArthur, Robert Alex. | Detroit, Mich. | Detroit Central H. S. |
| McAvity, George Clifford. | St. John, N.B. | Mount Allaben, N. Y. |
| McChlery, Neil Douglas. | Allen's Corners P.Q. | Gault Institute. |
| McConnell, William F | Ballynahinch, Ire. | Presbyterian College. |
| McCracken, Merrick Rennie | Danville, P.Q. | |
| McCrudden, Harry Elsmere | Buenos Ayres, S.A. | Westmount Academy. |
| McCrum, Fred. Algernon. | Cowansville, P.Q. | Huntingdon Academy. |
| McCuaig, Donald A. | Laggan, Ont | |
| MacDermot, Gerald Myles. | Montreal | Private Tuition. |
| MacEwen, Ewen | Westmount | Westmount Academy. |
| MacGuire, Donald | Mineral Rock, N.S. | Presbyterian College. |
| McInnes, T. R. Loftus | Vancouver, B.C. | |
| MacIntosh, Wm. A. Stanley | North Battleford, Sask | |
| MacKeen, Henry P. | Halifax, N.S | St. Andrew's College. |
| McKeown, James Day | Montreal | Montreal High School. |
| MacLeod, Donald | Ripley, Ont | Presbyterian College. |
| McNaught, Tom | Montreal | Presbyterian College. |
| McNaughton, John Leslie. | St. Raphael, West Ont. | Williamstown H. S. |
| MacPhail, Jeffrey Burland. | Montreal | Ashbury College. Ottawa |
| Macpherson, Charles E.H.C. | Rochester, Eng. | Selwyn College, Cambri'ge |
| MacWilliam, William Alex. | Hopeville, Ont. | Presbyterian College. |
| Metcalfe, R. A. McColl | Vankleek Hill, Ont. | Private Tuition. |
| Millson, Alvin Ernest | Munro, Ont. | Private Tuition. |
| Morrison, D. M. | McCrimmon, Ont. | Presbyterian College. |

| Name. | Home Address. | Where Last Educated. |
|---|---|---|
| Moulton, Vincent Clark | Westmount | Westmount Academy. |
| Myers, Leo | Durham, Eng | Technical Coll., Brisbane |
| Naughton, Michael Wm | Ballyconneely, Ire | |
| Odell, Percy Edwin | St. Andrews, N.B | Mt. Allison Academy. |
| Ouimet, Réné | Montreal | |
| Patterson, Herbert C | Collingwood, Ont | |
| Peterson, Wm. Gordon B.A. | Montreal | Trinity College Oxford. |
| Philp, J. Howard, M.A. | St. Lambert, P. Q. | Queen's University. |
| Putnam, Laurie Chalmers. | Vancouver, B.C. | Vancouver High School. |
| Quin, Frank Ashton | Christiansted, D.W.I. | Antigua Grammar School. |
| Rattray, John Andrew | Montreal | Diocesan Theo. College. |
| Reid, Edwin B | Avoca, P.Q. | Woodstock College. |
| Reid, G. E | London, Ont | London Collegiate Inst. |
| Rivard, Emile A | Duclos, P.Q | |
| Rivard, Louis Theophile. | Duclos, P.Q | Pte-aux-Trembles Sch |
| Rivard, Paul Felix | Duclos, P.Q | Pte-aux-Trembles Sch. |
| Robert, de Maisonneuve | Montreal | St. Mary's College. |
| Robinson, Henry L | Victoria, B.C. | Victoria College. |
| Rowat, Richard Miles | Athelstan, P.Q | Huntingdon Academy. |
| Samson, Percy V | London, Eng | Congregational College. |
| Scott, Howard Elliott | Westmount | Upper Canada College. |
| Seale, Edgar McKeown | Montreal | Montreal High School. |
| Shapiro, Joseph | Montreal | High School, Russia. |
| Sharman, William Harry | Winnipeg, Man | |
| Shaughnessy, Harold W. | St. Stephen, N.B. | St. Stephen High School. |
| Sparrow, John Arthur | Montreal | Lower Canada College. |
| Stevenson, Bayne Hamilton | Montreal | |
| Stevenson, Reginald C | Montreal | St. John's School. |
| Stewart, Clarence James. | Cazaville, P.Q | |
| Stewart, Louis Arthur | Aylmer East, P.Q. | Granby High School. |
| Stewart, Richard Needham | Fraserville, Ont | |
| Stuart, Lorne James | Cainsville, Ont | |
| Taylor, John Ross | Montreal West | Montreal High School. |
| Timmins, Jules R | Haileybury, Ont | |
| Tinling, Chas. Burnaby | Montreal | Highfield Sch., Hamilton |
| Tredinnick, Geo. Oliver | Montreal | Gananoque High School. |
| Vallance, Murray Allan | Hamilton, Ont | Highfield School. |
| Viner, Jacob | Montreal | Comm. & Tech. H. S. |
| Walker, Eric John E | Huntingdon, P.Q. | Huntingdon Academy. |
| Walley, Norman Erle | Sherbrooke, P.Q | |
| Warshawsky, Herman | Montreal | Montreal High School. |
| Waugh, William R | Montreal | Wykeham House School. |
| Weston, Albert Henry | Montreal | Montreal High School. |
| Wickson, J. A | Winnipeg, Man | University of Manitoba. |
| Wilgress, Leolyn Dana | Vancouver B.C. | |
| Williams. Ivor S | Smiths Falls, Ont. | Albert College. |
| Wilson, Robert James | Moffat, Scotland | Presbyterian College. |
| Wornell, William Paddon. | St. John's, Nfld | Methodist Coll., Nfld. |

*(Royal Victoria College.)*

| | | |
|---|---|---|
| Black, Caroline Elizabeth. | Genoa, P.Q | Lachute Academy. |
| Cameron, Ethel Kathrine. | Winchester, Ont | |
| Charbonneau, Susie | Montreal | Private Tuition. |
| Chauvin, Edith | Montreal | Comm. & Tech. H. S. |

| Name. | Home Address. | Where Last Educated. |
|---|---|---|
| Craven, Gertrude Muriel | Westmount | Trafalgar Institute. |
| Creelman, Edith Cumming | Montreal | Miss Douglass, London, England. |
| deLorimier, Marguerite | Montreal | Lycée des Jeunes Filles. |
| Ewing, Grace Irene | Pike River, P.Q. | French Methodist Inst. |
| Gentles, Henrietta S. | Westmount | Westmount Academy. |
| Glendinning, Maud Gertrude | Lancaster, Ont. | Williamstown H. S. |
| Goldstein, Dorothy | Montreal | Girls' H. Sch. Montreal. |
| Goldstein, Hildred Marjorie | Montreal | Girls' H. Sch., Montreal. |
| Goldwater, Jeannette | Lachine Locks, P.Q. | Montreal High School. |
| Gordon, Jessie McQueen | Victoria, B.C. | Victoria High School. |
| Green, Mabel Virtue | St. Lambert, P.Q. | Lorne School. |
| Grimes, Nellie May | Montreal | Comm. & Techn. H. S. |
| Haszard, Ethel C. | Charlottetown, P. E. I. | Prince of Wales Coll. |
| Hay, Margaret E. | Lachute, P.Q. | Lachute Academy. |
| Henry, Elizabeth Violet | Westmount | Westmount Academy. |
| Howard, Eva Osyth | Lancaster, Ont. | Williamstown H. S. |
| Jarvis, Leah May | Smiths Falls, Ont. | Smiths Falls H. S. |
| Kent, Evelyn | Westmount | Westmount Academy. |
| Kittredge, Marjorie E. | Granby, P. Q. | Granby H. S. |
| Leonard, Elaine Agatha | London, Ont. | Havergail Coll., Toronto. |
| Leslie, Ida Pearl | Westmount | Montreal High School. |
| Lighthall, Cybel Katherine. | Westmount | Havergal Ladies College. |
| McCaw, Isabel C. | Longueuil, P.Q. | Macdonald College. |
| MacKeen, Alice C. | Glace Bay, N.S. | Glace Bay H. S. |
| MacLennan, M. Muriel Currie | Chateauguay Basin, | P.Q., Norwood H. S. |
| Mace, Alice Beatrice K. | Montreal | Girls' H. S., Montreal. |
| Meldrum, Isabel | Montreal | Collegiate Inst., Ottawa. |
| Michaels, Edith Laura | Montreal | Girls' H. S., Montreal. |
| Millman, Bena | Montreal | |
| Morrison, Edna M. | Montreal | Comm. & Tech. H. S. |
| Pedlow, Olive | Renfrew, Ont. | Renfrew Coll. Inst. |
| Planche, Evangeline | Cookshire, P.Q. | Cookshire Academy. |
| Plimsoll, M. M. Gladys | Montreal | |
| Prather, Zelma V. | Montreal | Montreal High School. |
| Purdy, Cordelia A. | Westmount | Westmount Academy. |
| Quigley, Annie Gertrude | Westmount | St. John, N.B. |
| Racicot, Freda Hazel | Waterloo, P.Q. | Waterloo Academy. |
| Ross, C. Monica E. H. | Montreal | King's Hall, Compton. |
| Saucier, Marie Antoinette | Montreal | Emerson G. S., Duluth. |
| Scott, Bertha R. H. | Montreal | King's Hall, Compton. |
| Scott, Winifred | Outremont | |
| Standish, Olivia | Rougemont, P.Q. | Comm. & Tech. H. S. |
| Tait, Euphemia | Bainsville, Ont. | Williamstown H. S. |
| Taylor, Helen H. | Montreal West | Montreal High School. |
| Viner, Bessie | Montreal | Senior School. |
| Walter, Helene Agnes | Westmount | Trafalgar Institute. |
| Williams, Anna Louise S. | Westmount | Westmount Academy. |
| Willis, Helen Avis E. | Toronto, Ont. | Westbourne School. |
| Wright, Florence M. | Outremont, P.Q. | King's Hall, Compton. |

SECOND YEAR.

| NAME. | HOME ADDRESS. |
|---|---|
| Allan, George R. | Crieff, Scotland. |
| Atkins, Basil E. | Vancouver, B.C. |
| Barlow, Arthur F. | Montreal. |
| Barlow, William D. | Montreal. |
| Bieler, Jean H. | Westmount. |
| Bradbury, William J. | Bay Roberts, Nfld. |
| Bridgman, Randolph H. | Montreal. |
| Brown, Charles H. | Kingston-upon-Hull,Eng. |
| Brown, F. Ronald. | Danville, P. Q. |
| Bruneau, Aimé Sydney | Cornwall, Ont. |
| Burgess, Frank. | Union, Ont. |
| Church, Cyril K. | Aylmer, P. Q. |
| Common, Frank. | Montreal. |
| Corbett, Percy E. | Redvers, Sask. |
| Dale-Harris, Edmund P. | Ottawa, Ont. |
| Darling, Morton. | Westmount. |
| Dewey, George F. | Montreal. |
| Farthing, Hugh C. | Montreal. |
| Fisher, Arthur G. E. | Montreal. |
| Gall, George L. | Lachute, P. Q. |
| Gardiner, Egbert. | London, Ont. |
| Goldbloom, Alton. | Winnipeg, Man. |
| Heaton, John C. | Westmount. |
| Henry, H. Donald. | Montreal. |
| Hodgkinson, John. | Montreal. |
| Hodgson, Edwin. | Hudson Heights, P. Q. |
| Honey, Howard P. | Abbottsford, P.Q. |
| Howat, Alexander Guthrie. | Montreal. |
| Jeakins, John W. | Waterloo, P.Q. |
| Leavitt, Joseph. | Montreal. |
| Lofthouse, William. | Blackburn, Eng. |
| Lovett, Eric A. | Montreal. |
| Lowry, Wilbur C. | Lennoxville, Que. |
| Macaulay, Douglas L. | Westmount. |
| McCormack, George J. | London, Eng. |
| McGarry, Allan A. | Montreal. |
| MacLean, Kenneth. | Strathburn, Ont. |
| McLeod, William M. | Montreal. |
| Macnaughton, Ian R. R. | Montreal. |
| McVey, Robert W. | Glasgow, Scotland. |
| Matheson, Homer L. | Summerstown, Ont. |
| Matthews, Albert. | Caughnawaga, P. Q. |
| Merrill, Arthur J. | Montreal. |
| Mick, Henry. | Micksburg, Ont. |
| Miller, Iveson A. | Island Brook, P.Q. |
| Molleur, Charles A. | Montreal. |
| Morgan, Henry W. | Maisonneuve. |
| Morison, Charles K. | Ormstown, P.Q. |
| Morison, W. R. | Ormstown, P.Q. |
| Nehin, Frank O'B. | Buffalo, N.Y. |
| Nicholson, William C. | Westmount. |
| Osborne, James A. | Belfast, Ireland. |
| Pedley, Frank G. | Montreal. |

| Name. | Home Address. |
|---|---|
| Pelletier, Herman E. | Waterloo, P.Q. |
| Penny, W. Stewart | Westmount. |
| Potter, James G. | Montreal. |
| Rayner, Walter J. | London, Eng. |
| Reilley, Herschell E. | Shanley, Ont. |
| Robinson, Bernard S. | Strathroy, Ont. |
| Sacksner, Moses H. | Montreal. |
| Scott, Stanley L. | Sawyerville, P.Q. |
| Silver, Benjamin | Montreal. |
| Smith, Egerton Elliott | Beebe, P.Q. |
| Smith, Robert S. | Lavenham, Eng. |
| Stevenson, Reginald B. | Shoal Lake, Man. |
| Stewart, John G. | Montreal. |
| Struthers, R. Rolf | Sudbury, Ont. |
| Thomson, Alex K. | Coatbridge, Scotland. |
| Walsh, W. Allen | Montreal. |
| Wilson, W. G. Arthur | Shawville, P.Q. |
| (3) Wolland, Edwin J. | Bristol, Eng. |

*(Royal Victoria College.)*

| | |
|---|---|
| Armstrong, Jean D. | Ottawa, Ont. |
| Baillie, E. Olive | Montreal. |
| Cameron, Anne Watson | Sydney, N.S. |
| Chaffey, Harriet | Vancouver, B.C. |
| Cream, Louisa M. H. | Montreal. |
| Duff, Dorothy | Montreal. |
| Fortier, Evangeline | Montreal. |
| Fritz, Clara W. | St. John West, N.B. |
| Hecht, Amelia | Westport, Ont. |
| Henderson, Edith | Montreal. |
| Larivière, Rose de L. | Montreal. |
| Leonowens, Anna H. | Montreal. |
| Lighthall, Alice M. S. | Westmount. |
| Livingstone, Leba | Montreal. |
| McIlwraith, Dorothy S. | Hamilton, Ont. |
| MacSween, Florence R. | Montreal. |
| Matheson, Hannah | New Glasgow, N.S. |
| Morison, Margaret I. | Ormstown, P.Q. |
| Mount, Winnifred B. | Westmount. |
| Reinhardt, Olive A. | Peterboro, Ont. |
| Robinson, Jean | Victoria, B.C. |
| Ross, Leslie | Richmond, P.Q. |
| Shanly, Eleanor | Montreal. |
| Shearing, Helen A. | Montreal. |
| Trapp, Ethelyn | New Westminster, B.C. |
| Wilder, Kathleen M. | Westmount. |
| Williams, Hilda C. | Buckingham, P.Q. |

---

The figure (2), (3) or (4), prefixed to a name, indicates that the student takes a class in the corresponding year, as well as in that where the name is found.

THIRD YEAR.

*(McGill College)*

| NAME. | HOME ADDRESS. |
|---|---|
| Allan, James T. | Kinnear's Mills, P.Q. |
| Babcock, Charles E. | Huddleston, Va. |
| Berman, Paul L. | Montreal. |
| Bocquet, Auguste | Montreal. |
| Bolingbroke, Harold | Montreal. |
| Booth, Walter P. | Lyn, Ont. |
| Budyk, Joseph | Montreal. |
| Burke, Francis Robert | Montreal. |
| Chenier, Armand | Edmonton Alta. |
| Cockfield, William E. | Montreal. |
| Couture, Armand P. | Montreal. |
| Davidson, Wray L. | Princeton, Ont. |
| Dean, Joseph R. | Winnipeg, Man. |
| French, Bertram St. G. | Montreal. |
| Goldblatt, Harry | Montreal. |
| Gordon, D. Marshall | Victoria, B.C. |
| Green, Robert H. | Victoria, B.C. |
| Gronin, Joseph | Montreal. |
| Grossman, Max M. | Vancouver, B.C. |
| Hatcher, Henry G. | Catalina, Nfld. |
| Hepburn, William W., B.A. (Bishop's) | Richmond, P.Q. |
| Howard, Oswald W. | Westmount. |
| Hughes, Wilfred P. | Kemptville, Ont. |
| James, Clarke B. | Perth, Ont. |
| Johnson, Herbert L. | Montreal. |
| Kert, Isaac | Montreal. |
| Knatchbull-Hugessen, Adrian | London, Eng. |
| Kneeland, Stanley F. L. | Montreal. |
| Lindsay, William | Montreal. |
| Lumsden, Walter G. | Hamilton, Ont. |
| McInnis, John L. | Thamesville, Ont. |
| McVittie, Thomas J. | Blackpool, Lanc., Eng. |
| Mathewson, Arthur | Montreal. |
| Muhlstock, Abraham W. | Quebec, P.Q. |
| Muir, Alexander D. | Gainsborough, Sask. |
| Murray, W. E. Gladstone | Vancouver, B.C. |
| Naylor, R. Kenneth, B.A. | Farnham, P.Q. |
| Pearse, Walter J. | Kamloops, B.C. |
| Percival, Walter S. | Liverpool, Eng. |
| Proctor, Samuel J. | Liverpool, Eng. |
| Quigley, William | Snake River, Ont. |
| Roback, Abraham A. | Montreal. |
| Robinson, Mahlon I. | Winchester Springs, Ont. |
| Smith, Harry L. | Charlottetown, P.E.I. |
| Stalker, Archibald | Dutton, Ont. |
| Thomson, Herbert F. | Montreal. |
| Turner, William H. | Ottawa, Ont. |
| Walker, Herbert F. | Montreal. |
| Walker, Miles G. | Lachute, P.Q. |
| Wilkes, A. Burton | Brantford, Ont. |
| Young, William Harold | Montreal. |
| Youngheart, Samuel O. | Montreal. |

*(Royal Victoria College.)*

| NAME. | HOME ADDRESS. |
|---|---|
| Armour, Helen M. | Westmount. |
| Bennett, Annie J. | Montreal. |
| Boright, Beatrice M. | Mansonville, P.Q. |
| Braeuer, Alexandra McL. | Montreal. |
| Brown, Vera L. | Richmond Hill, N.Y. |
| Cameron, Helen L. | Winchester, Ont. |
| Campbell. Lillian M. | Ottawa, Ont. |
| Duguid, L. Amelia. | Montreal. |
| Dumaresq, Edna I. | Montreal. |
| Going, M. Chase. | Montreal. |
| Hadrill, Beatrice M. | Montreal. |
| Harris, Ethelwyn | Moresby Is., B.C. |
| Henry, Marguerite H. | Montreal. |
| Lawrence, Kate W. | Sherbrooke, P.Q. |
| Longworth, Ethel C. | Charlottetown, P.E.I. |
| MacDonald, Susan V. | Montreal. |
| MacEwen, Violet M. | Westmount. |
| McLaurin, Bernice M. | Ellsworth, Kan. |
| McLaurin, Clarissa E. | Montreal. |
| Manny, Louise. | Newcastle, N.B. |
| Mathewson, Winnifred. | Montreal. |
| Oughtred, Eleanor. | Montreal. |
| Pennington, Margaret H. | Montreal. |
| Ross, Beatrice M. | Montreal. |
| Scott, Ruby G. | Montreal. |
| Stewart, Mary A. R. | Montreal. |
| Thompson, Eileen B. | Montreal. |
| Timberlake, Alice. | Tokyo, Japan. |
| Wadleigh, Ruby R. | Ulverton, P.Q. |
| Wilson, A. Muriel. | Montreal. |
| Younger, Lilian F. | Montreal. |
| Younger, Mildred R. | Montreal. |

FOURTH YEAR.

*(McGill College.)*

| | |
|---|---|
| Angus, Henry F. | Montreal. |
| Armstrong, T. Edgar. | Montreal. |
| Beckwith, Harold A. | Victoria, B.C. |
| Bissett, John E. | Winnipeg, Man. |
| Boyd, James Bruce. | Vancouver, B.C. |
| Bridges, James W. | Cascumpec, P.E.I. |
| Cherry, William M. | Toledo, Ohio. |
| Clearihue, Joseph B. | Victoria, B.C. |
| Cook, Geoffrey H. | Quebec, P.Q. |
| Currie, George S. | Perth, Ont. |
| Davidson, Roy A. | St. John, N.B. |
| Dewey, A. Gordon. | Westmount. |
| Dixon, Shirley G. | Westmount. |
| Dowd, Norman S. | Ottawa, Ont. |
| Eberts, Harold F. H. | Victoria, B.C. |
| Estey, J. Wilfred. | Fredericton, N.B. |

| Name | Home Address. |
|---|---|
| Fletcher, Gilbert H. | Melbourne, Ont. |
| Gibbins, Gwynn G. | Vancouver, B.C. |
| Gillmor, Dan. P. | St. George, N.B. |
| Gray, E. Herbert, B.A. | Montreal West. |
| Hannah, George K. | Montreal. |
| Heney, Theodore B. | Montreal. |
| Herschorn, Hyman E. | Montreal. |
| Irving, W. Gordon. | Vernon, P.E.I. |
| Jacobs, Joseph H. | Caughnawaga, P.Q. |
| Kerry, John. | Montreal. |
| King, A. Nelson. | Victoria, B.C. |
| Knowling, Albert J. | Vancouver, B.C. |
| Larivière, Henri A. | Bethany, P.Q. |
| Lindsay, Gordon. | Vancouver, B.C. |
| Livinson, A. Jacob. | Montreal. |
| Lochhead, Allan G. | St.Anne de Bellevue,P.Q. |
| McGoun, A. Forster. | Westmount. |
| MacLean, A. Reginald M. | Woodstock, N.B |
| MacLeod, John Virgil. | Chilliwack, B.C. |
| Maass, Otto. | Montreal. |
| Martin, Arthur J. | Ottawa, Ont. |
| Meadows, Stanley D. | Vancouver, B.C. |
| Mewburn, Frank H, H. | Lethbridge, Alta. |
| Millman, Lazarus. | Montreal. |
| Morris, J. Frederick. | Ottawa, Ont. |
| Moyse, Robert E. | Montreal. |
| Newcombe, Edmund F. | Ottawa, Ont. |
| Scott, Arthur A. | Montreal. |
| Selman, Gordon S. | Vancouver, B.C. |
| Tannenbaum, Laurence. | Montreal. |
| Thomas, Owen J. | Vancouver, B.C. |
| Thompson, A. Rutherford. | Vancouver, B.C. |
| Trainor, Owen P. | Charlottetown, P.E.I. |
| Wanklyn, Andrew A. | Montreal. |
| Warburton, Hugh C. | Charlottetown, P.E.I. |
| Weir, George. | Saskatoon, Sask. |

(*Royal Victoria College.*)

| | |
|---|---|
| Browne, A. Gladys. | Montreal. |
| Chandler, Rena F. F. | Colquitz, B.C. |
| Craig, Evelyn. | Montreal. |
| Dixon, Margaret. | Vancouver, B.C. |
| Ellison, Myra K. | Vernon, B.C. |
| Greer, Jemima L. | Westmount. |
| Grimes, Evie M. | Montreal. |
| Hammond, Doris S. J. | Montreal. |
| Hayden, Mabel G. | Westmount. |
| Hill, Anna K. | Montreal. |
| Howell, Lucy M. | N. Vancouver, B.C. |
| Hulburd, Ethel E. | East Farnham, P.Q. |
| Hyde, Jennie G. | Montreal. |
| Letvinoff, Lena. | Vancouver, B.C. |
| Macleod, Hazel E. | Vancouver, B.C. |
| Macnaughton, Jean L. M. | Victoria, B.C. |

| Name. | Home Address. |
|---|---|
| MacQueen, Emma H. | New Glasgow, N.S. |
| Murchison, Hazel I. | Montreal. |
| Olmstead, Helen F. | Sutton, P.Q. |
| Paterson, Edith L. | Vancouver, B.C. |
| Reid, Florence C. | Westmount, P.Q. |
| Robertson, Mildred H. | Westmount. |
| Schafheitlin, Anna. | Montreal. |
| Smith, Margaret A. | Vancouver, B.C. |
| Smyth, Marjorie P. | Montreal. |
| VanVliet, Leonora M. | Lacolle, P.Q. |
| Willet, Jane T. | Vancouver, B.C. |
| Williams, Marion F. | Cowansville, P.Q. |
| Wilson, Winifred E. | Montreal. |

Partial Students Taking Special Courses for Teachers in Arts.

Allan, Mabel L.
Archibald, Henry F.
Boright, Carrie E.
Bremner Jennie M.
Brittain, Isabel E., B.A.
Egan, Enid.
Ladouceur, Alfred F.
Larivière, Emma S.
MacCallum, Hazel E.
McCoy, Isabel, B.Sc.
Macdiarmid, Katie, B.A.
McLachlan, Inez W.
McLean, Janet E.
Munn, Dora C., B.A.
Palmer, Gertrude.
Robertson, Ethel C., B.A.
Simpson, Edith P., B.A.
Sorley, Helen I.
Tupper, Nellie E.
Wilson, A. M., B.A.
Wilson, E. Louise.

## DEPARTMENT OF MUSIC.

Proceeding to the Degree of Mus.Bac.

First Year.

Heneker, Evelyn.
McEachran, Hugh M.A.
Schmidt, Augusta C. M.
Wills, Alice R.
Wilson, Edith R.
Wollam, J. W.

Second Year.

Ewing, Katherine H.
Horstman, Romola D.
Mackenzie, Katrina.
Neale, George Blair.

Third Year.

Harvie, Agnes.

Proceeding to Diploma of Licentiate in Music.

First Year.

Black, Hope.
Dansereau, Hector.
Davies, Helen.
Goldstein, Eva.
Jamieson, Ethel.
Ross, Jeanne.

SECOND YEAR.

Panneton, Antoinette.

THIRD YEAR.

Borland, Judith Q.

SENIOR PARTIAL STUDENTS.

Aird, Elsie.
Archibald, Louise V.
Bundock, H. D.
Brownlee, Hazel, B.A.
Bell, Grace.
Blumenthal, Gladys.
Brophy, Minnie.
Beauchamps, J.
Benning, Monica.
Cahan, Lois.
Coleman, Nora.
Dewey, A. Gordon.
DeCorrevont, Florence.
Diamond, Fanny.
Drysdale, Elsie.
Dumbrille, Reuben H.
Ellison, Ellen.
Fessenden, Minnie W.
Gardner, E. Stanley.
Gelinas, Gabrielle.
Glover, Allan F.
Gnaedinger, Henrietta G.
Gunn, H. A.
Hall, Esmerelda.
Jones, Thomas J.
Kauffman, Alice.
Kent, Evelyn.
Kimpton, Edythe.
Lawrence, Ursula.
Marshall, William W., B.A.
Mendel, Charles M.
Middlemiss, Hazel.
McCaffery, Laura.
MacMaster, Alice L.
McNicoll, Dolly.
Miller, Myrtle.
Oughtred, Eleanor.
Pendleton, Marguerite.
Reynolds, Bertha.
Robb, Jeannette, M
Ross, A. F. C.
Ramsay, Leeda.
Robertson, B. Isobel.
Schmidt, Evelyn.
Superior, Bertha.
Shanly, Anna.
Smyth, George.
Trotter, Eva L.
Trenholme, Geraldine.
Workman, Daisy.
Williams, May.
Weir, Ednah A.
Wheeler, Thelma.
Younger, Mildred R.

In addition to the above classification other students are also admitted to the Conservatorium under one of the following headings (a) Junior Partial; (b) Class and (c) Occasional.

## FACULTY OF APPLIED SCIENCE.

FIRST YEAR.

| NAME. | HOME ADDRESS. | WHERE LAST EDUCATED. |
|---|---|---|
| Alexander, Wm. Boyd | St. Leonards-on-Sea, Eng. | |
| Allingham, R. Ralph | Woodstock, N.B. | |
| Anglin, Wm. A. (Arch.) | St. John, N.B. | St. John High School. |
| Bacque, Frederick Harold. | Westmount | Wykeham House School |
| Bailey, Whitham Taylor | Westmount | Westmount Academy. |
| Barlow, Arthur F | Westmount | |
| Bauset, Jules | Montreal | |
| Bell, Gerald Gordon | Ottawa, Ont | |
| Bell, William Edward | Westmount | |

| Name. | Home Address. | Where Last Educated |
|---|---|---|
| Berrill, Frederick Charles | Kettering, Eng | Rossall School, Eng. |
| Best, Robert B | Montreal | |
| Bone, John Turner | Calgary, Alta | Western Canada College. |
| Booker, Harvey D | Kenora, Ont | Kenora High School. |
| Boswell, Maxfield Lea | Victoria, P.E.I | Prince of Wales College. |
| Botero, Baltasar | Colombia, S. America | St. Ignatius College. |
| Brophy, George Patrick | Ottawa, Ont | Ottawa College. |
| Brown, Hallowell M. (Arch.) | Montreal | Crichton School. |
| Brown, Thomas A | Victoria, B.C | |
| Buckman, Addison Wolff | Ottawa, Ont | |
| Bull, Wilford Edward | Winnipeg, Man | Winnipeg Coll. Inst. |
| Calder, C. Douglas | Westmount | |
| Carreau, Louis H | St. John's P.Q | Private Tuition. |
| Cauldwell, Albert L | Westmount | Westmount Academy. |
| Chalifour, Simon Joseph | Ottawa, Ont | Crichton School. |
| Chalifoux, Lionel | St. Hyacinthe, P.Q | |
| Charleson, Donald Richard | Vancouver, B.C | |
| Clarke, William Theodore | Ottawa South, Ont | Ottawa Coll. Inst. |
| Cleghorn, Andrew Graham | Vancouver, B.C | St. John's Sch., Montreal. |
| Coke, Reginald Norman | Jamaica, B.W.I | Tutorial University. |
| Coleman, Milton Thomas | St. Lambert, P.Q | Montreal High School. |
| Collyer, Charles Trower | Chemainus, B.C | |
| Connors, Frederick Patrick | Montreal | Catholic High School. |
| Coote, James A | Oakville, Ont | |
| Copland, Andrew Eric | Westmount | Lower Canada College. |
| Coulson, Robert Berry M | Montreal | Westmount Academy. |
| Cox, Griffith Vaughan | Kingston, Jamaica | Bristol, Eng. |
| Creaghan, T. Cyril | Newcastle, N.B | |
| Creasor, John Alfred | Owen Sound, Ont | Owen Sound Coll. Inst. |
| Cronk, Francis Joseph | Montreal | Private Tuition. |
| Cumming, Charles Linnaeus | Rugby, Eng | Oxford University. |
| Cunningham, Andrew Irwin | Westmount | Westmount Academy. |
| Dalton, Noel Roy | New York City | |
| Darbyson, Allen B. (Arch.) | Montreal | Shortell's Academy. |
| Darling, George Kenneth | Montreal | Lower Canada College. |
| Davidson, Gerald Hanson | Ottawa, Ont | Studyvera, Ottawa. |
| Davignon, Cyrille E | Knowlton, P.Q | Shortell's Academy. |
| Davis, Harry Bernard | Quebec, P.Q | Shortell's Academy. |
| Davis, James F | Quebec, P.Q | |
| Dawson, Francis Gilmer T | Montreal | Bradfield College, Eng. |
| Day, Joseph Charles | Montreal | Crichton School. |
| de Lisle, Alexander M | Montreal | Lower Canada College. |
| Dempster, Arthur L | Rossland, B.C | Trinity College School. |
| Dixon, Archibald Hamilton | Hamilton, Ont | |
| Dodge, John Bigelow | Ste.Anne de Bellevue, P.Q. | St. Mark's School. |
| Dowie, Kenneth W., B.Sc. (Arch.) | Westmount | |
| Doyle, Samuel T | Montreal | St. Patrick's School. |
| Draper, George Collier | Montreal | Montreal High School. |
| Duggan, Kenneth L | Montreal | St. Albans, Brockville. |
| Ekers, Archer | Montreal | St. John's School. |
| Ewart, Kenneth Penicuik | Ottawa | Ottawa College Inst. |
| Farrell, Ralph Guy | Montreal | |
| Fauteux, Leandre | Montreal | Private Tuition. |
| Fenster, Moses (Arch) | Montreal | Montreal High School. |
| Forman, John F | Montreal | Shortell's Academy. |

| Name. | Home Address. | Where Last Educated. |
|---|---|---|
| Fowler, Walter | Westmount | Ottawa Collegiate Inst. |
| Fricker, Cecil Oscar | London, W. Eng. | Charterhouse, Surrey, E. |
| Furlong, Cecil Simon (Arch.) | London, Eng. | St.John's Sch., Montreal. |
| Garden, H. Mackie G. | Montreal | Y. M. C. A. |
| Garrett, Eric Hanover | Jamaica, B.W.I. | Jamaica College. |
| Garrow, Edwin Esslemont | Montreal | Montreal High School. |
| Gass, Ronald Wright | Montreal | Rothesay Coll. School. |
| Gentles, Allan S. | Westmount | Westmount Academy. |
| Gilbert, P. Geoffrey Britton | Toronto, Ont. | Montreal High School. |
| Gillies, John Joseph A. | Irish Cove, N.S. | |
| Gilmore, Arthur J. | Derby Line, Vt. | St. Charles Seminary. |
| Goodman, Flavius Ivo C. | St. Michael's, Barbados | Harrison College, Bdos. |
| Grant, William Roy | New Glasgow, N.S. | New Glasgow H. S. |
| Griffith, Hugh Bradford | Montreal | Crichton School. |
| Guignard, Ernest Augustus. | Brassus, Switzerland | Gymnase Scientifique, Lausanne. |
| Hadley, Daniel James | Montreal | Montreal High School. |
| Hague, Kennington H. S. | Montreal | Lower Canada College. |
| Hall, John | Cornwall, Ont. | Cornwall High School. |
| Hall, John Smythe | Montreal | Bishop's College School. |
| Harding, C. Howard | Westmount | Shortell's Academy. |
| Harkom, John Frederick | Melbourne, P.Q. | Upper Canada College. |
| Harris, Pasker Baptiste | Gore's Landing, Ont | Trinity College School. |
| Harrison, Austen St.B.(Arch.) | Shortlands, Eng. | Monkton Combe School. |
| Hay, Allan Keith | Ottawa, Ont. | Ottawa Coll. Inst. |
| Henry, Thomas Haliburton | Westmount | Westmount Academy. |
| Holland, Henry | Leamington, Eng. | St. Joseph's Coll. Dumfries |
| Howell, John G. | Penbigwrn, S.Wales. | University Coll., London. |
| Hutchinson, Samuel A. | Montreal | |
| Hyams, Samuel | Montreal | Comm. & Tech. H. S. |
| Hyde, Walter C. (Arch.) | Montreal | Lower Canada College. |
| Ingersoll, John Nelson | Ottawa, Ont. | Ottawa Collegiate Inst. |
| Jackson, Frederick S. | Nelspoort, Cape Colony. | Diocesan Coll., C.C. |
| Jamieson, Robert Edwards | Ottawa, Ont. | Ottawa Coll. Inst. |
| Jerry, Hubert W. | Plattsburgh, N.Y. | |
| Keeping, Kimball F. | Murray Harbor, P.E.I. | State N. S., N. Dakota. |
| Kennedy, Harold Samuel. | Ottawa, Ont. | Ottawa Coll. Inst. |
| Kennedy, Howard | Dunrobin, Ont. | Ottawa Coll. Inst. |
| Kilpatrick, Garfield | Montreal | Private Tuition. |
| Kingston, Kenneth Jennings | Ottawa, Ont. | Ottawa Coll. Inst. |
| Kirby, Sidney S. | Ottawa, Ont. | |
| Kitchener, Henry Hamilton | Bermuda | R. M. College, Sandhurst. |
| Knowles, James Melville | Westmount | Westmount Academy. |
| Laing, Norman Beattie | Essex, Ont. | Essex High School. |
| LaMontagne, John M. | Orlando, Fla. | Rollins College, Fla. |
| Lawrence, Alfred John | Outremont | Montreal High School. |
| Layne, Geoffrey F. | Worthing, Barbados | Harrison College. |
| Leppo, Howard D (Arch.) | Mansfield, Ohio | Ohio State University. |
| Lionais, Edward | Montreal | Private Tuition. |
| Loudon, Ernest Warren | Westmount | Wykeham House School. |
| Lovett, Eric Almon | Montreal | |
| McAvity, G. Clifford | St. John, N.B. | Mt. Allaben, New York. |
| McDougall, James | Morenci, Arizona | New Glasgow H. S. |
| McFadyen, Kenneth Alex. | Tignish, P.E.I. | Prince of Wales College. |
| McFarlane, Blair Athol | Hamilton, Ont. | Hamilton Coll. Inst. |

| Name. | Home Address. | Where Last Educated. |
|---|---|---|
| MacLaurin, Douglas Cameron | Vankleek Hill, Ont. | Woodstock College. |
| McLean, John Reginald | Morenci, Arizona | Coll. School, Windsor, N.S. |
| McLean Percy Francis | Coaticook, P.Q. | |
| McLennan, R. Purves | Vancouver, B.C. | McGill University College. |
| McLennan, W. Durie (Arch.) | Montreal | |
| MacLeod, Hector John | High River, Alta. | Prince of Wales College. |
| McMeekin, Ernest | Stonefield, P.Q. | |
| McNicoll, David | Westmount | Wykeham House School. |
| Mabon, J. Bertram, B.A. | Montreal | |
| Malhiot, Maurice E.(Arch.) | Calgary, Alta. | Calgary H. S. |
| Marshall, Melville Johnston | McAdam Jct., N.B. | Private Tuition. |
| Masters, Alexander R. | Montreal | Comm. & Tech. H. S. |
| Matthews, Clifford | Montreal | Lower Canada College. |
| Millar, Burton | Peterboro, Ont. | Peterboro Coll. Inst. |
| Milne, Arthur H. | Montreal West | Montreal High School. |
| Mitchell, Leslie Stuart | Westmount | |
| Monat, Charles Oscar | Montreal | |
| Morgan, Neil Lyman | Montreal | Comm. & Tech. H. S. |
| Morkill, Geoffrey W. | Lima, Peru | Bishop's College School. |
| Morris, Frederick Jarvis | St. Regis Falls, N.Y. | St. Regis Falls, H. S. |
| Morton, George Percival | Hamilton, Ont | |
| Mullin, James W. | Barb, Ont. | Vankleek Hill Coll. Inst. |
| Notman, Keith C. | Westmount | Lower Canada College. |
| Orkin, Edward | Westmount | Wykeham House School. |
| O'Shea, Daniel Wilfrid | St. Vincent de Paul | Catholic High School. |
| Osler, Ralph T. L. | Summerland, B.C. | Trinity College School. |
| Page, John Albert | Brockville, Ont. | Brockville Coll. Inst. |
| Paisley, J. Ernest Harris | Ottawa, Ont. | St. Andrew's College. |
| Panet-Raymond, Bernard, B.A. (Laval), (Arch.). | Montreal | St. Mary's College. |
| Parkins, Frank Albert | Montreal | Private Tuition. |
| Patterson, Alex. Ernest | Longueuil, P. Q. | Shortell's Academy. |
| Patterson, Arthur Logie | Westmount | Westmount Academy. |
| Pearson, C. Chisholm | Buckingham, P.Q. | Loyola College. |
| Peck, Brian A. | Montreal | Lower Canada College. |
| Perrault, John Julian | Montreal | Catholic High School. |
| Pickel, Follin Eric | Sweetsburg, P.Q. | |
| Pitts, Clarence McLeod | Ottawa, Ont. | Ottawa Coll. Inst. |
| Power, Edmund de Gaspe | Montreal | |
| Powter, Arthur Lawrence | Westmount | Shortell's Academy. |
| Pulford, Fred Meikle | Winnipeg, Man. | University of Manitoba. |
| Renaud, A. Reginald | Montreal | |
| Ribadeneyra, Antonio | Guayaquil, S. America | Loyola College. |
| Robertson, James | Lachine Locks, P.Q. | Kilmarnock Acad., Scot. |
| Robins, Frederick George | Montreal | McGill Model School. |
| Rogers, Henry George | Peterboro, Ont. | |
| Ross, Bruce | Ottawa, Ont. | Ottawa Coll. Inst. |
| Ross, George William | Westmount | Westmount Academy. |
| Roy, L. Philippe | Quebec | |
| Ryan, John Augustine | Westmount | |
| Ryley, Edmund Gerard | Montreal | Private Tuition. |
| Sandison, William Ross | Winnipeg, Man. | Manitoba University. |
| Scantlebury, Reginald A. | Vankleek Hill, Ont. | Vankleek Hill Coll. Inst. |
| Schneider, George N. | Montreal | Shortell's Academy. |
| Scott, Alexander Gordon | Montreal | Lower Canada College. |

| Name. | Home Address. | Where Last Educated. |
|---|---|---|
| Scott, Norman Mackie | Ottawa, Ont | Studyvera, Ottawa. |
| Scott, William Douglas | Oxford, Eng | Rugby School, Eng. |
| Sharman, William Harry | Winnipeg, Man | Manitoba College. |
| Sherlock, Robert Hamilton | Lethbridge, Alta | Lethbridge H. S. |
| Shuen, George Yip Kew | Vancouver, B.C | McGill University Coll. |
| Simpson, John Ashworth | Montreal | Shortell's Academy. |
| Smith, Lewis Ewing | Mystic, P. Q. | Bedford Academy |
| Sproule, Stanley M., B. Sc. | (Arch) Montreal | |
| Stalker, Archibald | Dutton, Ont | |
| Stanley, Harold Poole | Charlottetown, P.E.I. | Prince of Wales College. |
| Stavert, Ewart | Montreal | Montreal High School. |
| Stevenson, Bayne H. | Montreal | Ridley College. |
| Stewart, George Lawrence | Winnipeg, Man | Manitoba University. |
| Stirling, James Buchanan | Montreal | Shortell's Academy. |
| Strathy, Ralph Lee A | Montreal | Lower Canada College. |
| Sullivan, Jeremiah Jos | Valleyfield, P.Q. | Gault Institute. |
| Summerskill, John Henry | Montreal | Montreal High School. |
| Taylor, Walker Lewis | Edmonton, Alta | Trinity College School. |
| Taylor, William Harold | Winnipeg, Man | Manitoba College. |
| Thom, James Balfour | Westmount | Upper Canada College. |
| Thompson, G. Harry | Oxford, N.S. | Dalhousie University. |
| Timmins, Jules R. | Haileybury, Ont. | |
| Todd, Martin Milne | Galt, Ont. | Berlin Collegiate Inst. |
| Tracy, Thomas Leonard | Vancouver, B.C. | Vancouver High School. |
| Traversy, Eric Elsdale | Montreal | Lower Canada College. |
| Troop, P. Frederick R. | Montreal | Lower Canada College. |
| Twitchell, Ralph S. (Arch) | Mansfield, Ohio | Rollins College, Fla. |
| Tyler, William Grant | Montreal West | Montreal High School. |
| Vanier, George (Arch) | Montreal | |
| Walbank, W. McLea | Montreal | Ridley College. |
| Waldron, Clifford R. | East Clifton, P.Q. | Cookshire Academy. |
| Wall, A. Fraser | Montreal | Shortell's Academy. |
| Wall, William Clarence | Montreal | Shortell's Academy. |
| Warwick, George W. | Brockville, Ont. | |
| Waterous, Charles L. | Brantford, Ont. | St. Andrew's College. |
| Werry, Royal E. C. | Montreal | Montreal High School. |
| Wickson, George Arthur | Winnipeg, Man | University of Manitoba. |
| Wilkes, Francis H. (Arch) | Brantford, Ont. | St. Andrew's College. |
| Wilkinson, Eyre Spenser | London, Eng. | University Coll. London. |
| Williamson, Alexander D. | Montreal | Crichton School. |
| Winter, F. Bassell | St. John, N.B. | St. John High School. |
| Young, Richard Thomes | Ottawa Ont | Ottawa Coll. Inst. |
| Yuile, John Watson | Montreal | Private Tuition. |

Second Year.

| Name | Home Address. |
|---|---|
| (3)Abbott, William H | Westmount. |
| Adam, Réné | Quebec. P.Q. |
| Alexander, E. Douglas | Westmount. |
| (3)Anderson, John Roger | Halifax, N.S. |

The figure (2), (3) or (4), prefixed to a name, indicates that the student takes a class in the corresponding year, as well as in that where the name is found.

| Name. | Home Address. |
|---|---|
| Bailey, Phillip P. | London, Eng. |
| Baker, Massy. | Bamsha, Tipperary, Ire. |
| Baridon, Frederick W. | Westmount. |
| Barwick, Oliver A. (Arch) | Montreal. |
| Berry, Robert C. | Montreal. |
| Bignell, Hilary V. | Montreal. |
| (3)Billington, Edward Eric. | West Kirby, Eng. |
| Blair, Donald. | Montreal. |
| Boire, J. Jules. | Quebec, P.Q. |
| (2)Brisbane, John S. | Westmount. |
| Burrow, Horace L. | Hamilton, Ont. |
| Cameron, Alan Emerson. | Ottawa, Ont. |
| Cardinal, J. Emile. | Montreal. |
| Chambers, Hugh D. | New Glasgow, N.S. |
| (3)Clawson, Frederick A. | St. John, N.B. |
| Cloran, Edmund P. | Montreal. |
| Cole, Harold F. | Ottawa, Ont. |
| Cooke, Arthur D. | Westmount. |
| Crewdson, Eric. | Milnthorpe, Eng. |
| Crossfield, John T. K. | Monmouth, Eng. |
| Cunningham, Stanley H. | Montreal. |
| Daoust, Armand. | Montreal. |
| Davidson, Carl G. | Montreal. |
| Davidson, Donald A. L. | London, Eng. |
| Davidson, W. Joseph. | Westmount. |
| Davies, J. Frederick B. | Hull, P.Q. |
| Delgado, Percy G. | Falmouth, Jamacia. |
| Dempster, Reginald C. | Rossland, B.C. |
| Dodd, George. | Newport, Jamaica. |
| Donald, James R. | Montreal. |
| Dougall, J. Brereton. | Montreal |
| Drummond, Kevin S. | Midland, Ont. |
| Eardley-Wilmot, Trevor. | Perth, Ont. |
| Eaton, H. Vincent. | Montreal. |
| Egerton, Rowland P. | Coed-y Glyn, N. Wales. |
| Eliasoph, Joseph E. | Quebec, P.Q.. |
| Fitzgerald, Edward. | Peterboro, Ont. |
| Gilchrist, George H. | Ottawa, Ont. |
| Goodwin, W. Carlyle. | Westmount. |
| Gordon, William Bain. | Portland, Oregon. |
| Grafftey, W. Arthur. | Westmount. |
| Graham, Ewen J. | Moyie, B.C. |
| Hamer, Thurston Moseley. | Mexico City, Mexico. |
| Hample, Carl Samuel. | Winnipeg, Man. |
| Hanley, Alphonsus E. | Montreal. |
| Harvey, Ernest R. | Lyndhurst, Ont. |
| Hasbrouck, Bernard. | Nyack, N. Y. |
| Hebden, John B. | Montreal. |
| Hooper, B. Reagh. | Charlottetown, P. E. I. |
| Hull, Harold L. | Pretoria, S. Africa. |

---

The figure (2), (3) or (4), prefixed to a name, indicates that the student takes a class in the corresponding year, as well as in that where the name is found.

| Name. | Home Address. |
|---|---|
| Jacques, George Eric | Westmount. |
| Joseph, Kenneth de S. | Quebec, P. Q. |
| Kavanagh, Walter J. | Montreal. |
| Kirby, Thomas H. | Winnipeg, Man. |
| Kirkpatrick, Robert A. | Ferguson, B. C. |
| La Forest, J. Maurice | Montreal. |
| Lauder, Lester E. | Montreal. |
| Lawrence, William H. | Watford, Ont. |
| Leach, William L. | Montreal. |
| Learned, Frank B. | Learned Plain, P.Q. |
| Legris, Charles E. | Arctic, R.I. |
| Lindsay, Charles C. | Quebec, P.Q. |
| Lovell, Henry P. | Coaticook, P.Q. |
| Ludington, William H. | Montreal. |
| Lynch, T. Leo. | Fredericton, N.B. |
| Lyster, Horace M. | Kirkdale, P.Q. |
| McBeath, Roy S. | Marshfield, P.E.I. |
| McCaghey, Norman F. | Quebec, P.Q. |
| McConkey, Benjamin B. (Arch) | Guelph, Ont. |
| McCuaig, Clarence N. | Montreal, P.Q. |
| McDonald, Louis M. B.A. (Laval) | St. John, N.B. |
| Macdonald, Norman M. | Sutton, P.Q. |
| McEvenue, St. Clair | Kinley, Surrey, Eng. |
| Macleod, Keith | Parkhill, Ont. |
| MacRae, William A. | Montreal. |
| Mais, Herbert R. | Kingston, Jamaica. |
| Martin, John L. T. | Montreal. |
| Masson, William Grey | Ottawa, Ont. |
| Mathewson, Samuel J. | Montreal. |
| Mitchell, William G. | Port Hope, Ont. |
| Morrow, Thos. McL. | St. John, N. B. |
| Moseley, Frank A. | Montreal. |
| Murphy, Stephen J. | Montreal. |
| Murray, Charles Ivan | Brockville, Ont. |
| Nichols, Lawrence H. | Montreal. |
| Nicholson, R. Ardrey V. (Arch) | Ottawa, Ont. |
| O'Donnell, John G. | Quebec, P.Q. |
| Ouimet, Réné (Arch) | Montreal. |
| Paterson, Harold S. | Ottawa, Ont. |
| Pitts, Andrew A. | Westmount. |
| Pontbriand, George E. | Sorel, P.Q. |
| Price, H. Bertram | Montmorency Falls, P.Q. |
| (3)Pullen, John | Westmount. |
| Reeder, Kenneth A. | Saskatoon, Sask. |
| Reid, James W. (Arch.) | Riverside, N.B. |
| Roche, Ivor F. | Montreal. |
| Sclater, Arthur, N. | Montreal. |
| Skeete, Arthur T. | Christ Church, Barbados. |
| Suckling, Gerald A. | Westmount. |
| Tait Irving R. | Montreal. |
| Taylor, George M. | Ottawa, Ont. |

The figure (2), (3) or (4) prefixed to a name, indicates that the student takes a class in the corresponding year, as well as in that where the name is found.

| NAME. | HOME ADDRESS. |
|---|---|
| Tett, Harold B. | Bedford Mills, Ont. |
| Thompson, Geoffrey | Weybridge, Surrey, En g |
| Tothill, Geoffrey C. | Bungay, Suffolk, Eng. |
| Webb, Chas. Harry | London, Eng. |
| Wilson, Calvin, P. | Huntley, Ont. |
| Wilson, Willlam J. | Ottawa, Ont. |
| Wright, Walter G. | London, Ont. |

THIRD YEAR.

| | |
|---|---|
| Armstrong, J. Douglas., B.A. | Ottawa, Ont. |
| Austin, Morris | Montreal. |
| Bagshaw, Frank | Victoria, B.C. |
| Barnaby, Hazen O. (Arch.) | St. John, N.B. |
| Barnes, Frank H | Port Hope, Ont. |
| Beauvais, Louis J. | Chicago, Ill. |
| Bell, Donald A. S. | Ottawa, Ont. |
| Biddulph, Richard H. H. | Reading, England. |
| Bisson, Leonard | Hull, Que. |
| Blois, Robert Kerr | Halifax, N.S. |
| Bolan, William M. | Montreal. |
| Bolton, Phillip L. | St. Lambert, P.Q. |
| Boyd, Thornton B. | Bobcaygeon, Ont. |
| Boyd, Winnette W. | Bobcaygeon, Ont. |
| Brown, Michael J. | Montreal. |
| Burr, Arthur V. | Toronto, Ont. |
| Calkins, Harold A. | Montreal. |
| Campbell, Colin | Ottawa, Ont. |
| Campbell, Kenneth M. (Arch.) | Fredericton, N.B. |
| Casey, Joseph F. | Montreal. |
| Cash, George S. | Wincanton, Eng. |
| Cassels, W. L. Lyttleton | Ottawa, Ont. |
| Chaffey, Charles R. | Vancouver, B.C. |
| Clark, J. Hamilton | Ottawa, Ont. |
| Cohen, Moise J. | Vancouver, B.C. |
| Connelly, William J. | Up Park Camp, Ja. |
| Cook, Shirley S. | Milton, N.S. |
| Cooper, Corin H. B. | Frome, England. |
| Cram, Haldane R. | Ottawa, Ont. |
| Cummer, Robert L. | Hamilton, Ont. |
| Cushing, Arthur G. | Westmount. |
| Darling, Gordon | Graham, Que. |
| Davis, John C. | Montreal. |
| deHart, Joseph B. | London, Eng. |
| Delepine, H. George S., B.Sc. | Manchester, Eng. |
| Demers, John C. A. | St. Johns, Que. |
| DesRosiers, Arthur | Ottawa, Ont. |
| DesRosiers, Ivanhoe (Arch.) | Ottawa, Ont. |
| Dixon, Walter U. | Montreal. |
| Downes, M. Augustine, B.A. (Laval) | Montreal. |
| Duffield, Colin M. | London, Ont. |
| Duggan, Herrick S. | Montreal. |
| Edwards, Herbert L. | Ponoka, Alta. |
| Elderkin, Vernon C. | Parrsboro, N.S. |
| Fay, Leonard W. | Knowlton, P.Q. |

| NAME. | HOME ADDRESS. |
|---|---|
| Finnie, Oswald S., B. Sc | Ottawa, Ont. |
| Forman, Edmund G. H | Coldon, Scotland. |
| Fox, Charles A | Coaticook, Que. |
| Futterer, Edward | Albany, N.Y. |
| Gall, Arthur S | Montreal. |
| Garth, Charles H | Rosemere, P.Q. |
| Gartshore, William M | Hamilton, Ont. |
| Gass, Laurence H | Montreal, West. |
| Gear, George | St. John's, Nfld. |
| Gnaedinger, F. Theo | Westmount. |
| Gohier, Joseph E. A | St. Laurent, Que. |
| Goode, Thomas G | Westmount. |
| Gorman, T. Clarence | Ottawa, Ont. |
| Gougeon, Hugh D | Saskatoon, Sask. |
| Hall, Edward P | Quebec, P. Q |
| Hanington, Arthur E. W | Ottawa, Ont. |
| Hayward, John G | Brockville, Ont. |
| Henry, Robert A. C | Calgary, Alta. |
| Heward, Francis S. B | Montreal. |
| Hollinsed, Richard E. L | Barbados, B.W.I. |
| Hugh-Jones, Evan B | Wrexham, N.W. |
| Hughson, John W | Ottawa, Ont. |
| Hutchins, George R | Montreal. |
| Hyman, William S | Montreal. |
| Jelly, Ernest M | Carleton Place, Ont. |
| Johnson, Geoffrey A | Ottawa, Ont. |
| Jordan, Ernest H | Goderich, Ont. |
| Kearns, James A | Montreal. |
| King, Edmund D. (Arch.) | Chipman, N.B. |
| Lapp, Frank W | Cobourg, Ont. |
| Lefebvre, Eugene | Montreal. |
| Legris, Joseph A | Louiseville, Que. |
| Lesage, George W | Montreal. |
| Lockhart, Earle A. (Arch.) | Montreal. |
| Lynch, James A | Hastings, Barbados. |
| McCammon, John W | Inverness, Que. |
| MacDermot, Edward C | Montreal. |
| McDougald, Charles W. H | Ottawa, Ont. |
| McDougall, Roderic J | Vankleek Hill, Ont. |
| McEwen, Alan B | Byron, Ont. |
| McGannon, Edward M. B.A | Brockville, Ont. |
| McGregor, Donald M | Victoria, B.C. |
| Mackintosh, Ivan R | Bobcaygeon, Ont. |
| McIntyre, A. Gordon | St. John, N.B. |
| Mackay, Edward | Montreal. |
| MacKinnon, Duncan A | Vancouver, B.C. |
| McLellan, Robert B | Vancouver, B.C. |
| McLeod, C. Kirkland | Montreal. |
| Macleod, Donald L | Summerside, P.E.I. |
| McMahon, James W | St. Albans, Vt. |
| McNiven, John J | New Westminster, B.C. |
| McRae, Joseph P | Ottawa, Ont. |
| Mather, Richard H | Ottawa, Ont. |
| Matheson, Walter | Charlottetown, P. E. I. |
| May, William T | Ottawa, Ont. |

| Name | Home Address |
|---|---|
| Miller, Howard | Los Angeles, Cal. |
| Morkill, Frank E. | Lima, Peru. |
| Morrisey, Thomas S. | Montreal. |
| Nation, Arthur F. | Brandon, Man. |
| Norris, J. Hillyard | Westmount. |
| Paddon, Hubert A. | St. John's, Nfld. |
| Page, Sidney M. | Lockeport, N.S. |
| Peden, Ernest | Montreal West. |
| Prince, Preston G. | Montreal. |
| Ralston, Edward da F. | Sao Paulo, Brazil. |
| Randolph, Thomas G. | Frome, Somerset, Eng. |
| Reinhardt, Ernest A. | Westmount. |
| Rennoldson, David B. | Westmount. |
| Richards, Hugh A. (Arch.) | Ottawa, Ont. |
| Robb, James B. | Westmount. |
| Robertson, Charles | Brantford, Ont. |
| Routledge, Henri O. | Swanage, Eng. |
| Roy, James L. | Bedford, N.S. |
| Ryan, Edward A. | Westmount. |
| Salter, John N. | Ottawa, Ont. |
| Sargent, Albert E. | Montreal West. |
| Schippel, Henry F. | Montreal. |
| Scott, Allen N. | Ottawa, Ont. |
| Shaw, Douglas A. | Montreal. |
| Skelton, Philip H. | Montreal. |
| Skelton, Ralph | Montreal. |
| Starke, Henry M. | Rochester, N.Y. |
| Steeves, John T. | Hillsborough, N.B. |
| Sterns, Russel W. | Charlottetown, P. E. I. |
| Stroud, Wallace D. | Montreal. |
| Tebbutt, Oswald N. | Cambridge, Eng. |
| Traversy, Valmore I. | Westmount, P.Q. |
| Turnbull, Alan | Hamilton, Ont. |
| Valiquette, Joseph H. | Quebec, P.Q. |
| Vallance, H. Walter | Hamilton, Ont. |
| Veilleux, William H. | Sherbrooke, P.Q. |
| Wade, Mark Leighton | Kamloops, B.C. |
| Warburton, J. Arthur | Charlottetown, P.E.I. |
| Warner, John E. A. | Kentville, N.S. |
| Weber, K. Rudolph | Montreal. |
| Wheatley, James H. | Westmount. |
| Whittall, Fred R. | Westmount. |
| Wilson, William B. | Ottawa, Ont. |
| Woodyatt, Charles F. K. | Brantford, Ont. |

FOURTH YEAR.

| | |
|---|---|
| Allen, Alex. D. | Wallaceburg, Ont. |
| Alward, Ernest T. | St. John, N.B. |
| Anderson, Alexander A. | Ottawa, Ont. |
| Anderson, Sedley C. | Halifax, N.S. |
| Archibald, Ernest B. | Montreal. |
| Bacon, Thomas H. | Montreal. |
| Bennet, G. Arthur | New Glasgow, P.Q. |
| Boast, Richard G. | Richmond, Que. |

| | |
|---|---|
| Boyd, G. Mossom | Bobcaygeon, Ont. |
| Boyd, Lawrence C | Bobcaygeon, Ont. |
| Briercliffe, Henry C. D | Richland, Man. |
| Brotherhood, Wilfred C | Montreal. |
| Brydone-Jack, Herbert D | Vancouver, B.C. |
| Callender, Delmer W | Guelph, Ont. |
| Carnwath, James | Riverside, N.B. |
| Child, Cyril G | Calgary, Alta. |
| Christie, John E | Lachute, P.Q. |
| Clark, Raymond B | Highgate, Jamaica. |
| Collier, Harold F | Westmount. |
| Cook, A. Stuart | Quebec, Que. |
| Davis, Ira T | Amherst, N.S. |
| deGruchy, Charles S | Westmount, P.Q. |
| Dennison, Lawrence G. B.A | Westmount. |
| Dodd, Geoffrey J | Newport, Jamaica. |
| Duguid, A. Fortescue | Aberdeen, Scot. |
| Earle, Harry | Vancouver, B.C. |
| Eldridge, Gardner S | Vancouver, B.C. |
| Elliott, Fergus E | Montreal. |
| Evans, Alfred J. L | Quebec, P.Q. |
| Falcke, Joseph | Cape Town, S. Africa. |
| Forbes, D. Stuart | Ithaca, N.Y. |
| Fortier, Frank A | Westmount. |
| Fraser, Harold A | London, Ont. |
| Galloway, John D | Grand Forks, B.C. |
| Gillies, Clyde C | Toronto, Ont. |
| Gnaedinger, Cedric W | Montreal. |
| Goodeve, Leslie C | Ottawa, Ont. |
| Gregory, Philip S., B.A. (Bishop's) | Fredericton, N.B. |
| Hargraft, Stuart A | Winnipeg, Man. |
| Hawkins, Stuart S. (Arch.) | Ottawa, Ont. |
| Holland, Francis C | Leamington, Eng. |
| Hooper, J. Harold | North Milton, P. E. I. |
| Hudson, George M | Westmount. |
| Irwin, William E. C | Ottawa, Ont. |
| Ivey, Charles H | London, Ont. |
| Johnston, Robin L | St. John, N.B. |
| Kearney, Graham | Renfrew, Ont. |
| Kelly, Albert J | Edmonton, Alta |
| Kingsley, Edward R | Lindsay, Ont. |
| Koch, Ernest C | Westmount. |
| Laforest, Guy B | Montreal. |
| Linagh, Ronald K | Maisonneuve, P.Q. |
| Little, Harold R. (Arch) | London, Ont. |
| Lumsden, Hugh A | Montreal. |
| Macaulay, James R | Montreal. |
| MacDonald, G. Heath (Arch.) | Murray Harbor, P.E.I. |
| Macdonald, Jeremiah J | Vernon River, P. E. I |
| McLeod, Allan C. G | Montreal. |
| Millican, A. Gordon | St. John, N.B. |
| Motyer, Arthur J., B.A | Hamilton, Bermuda |
| Murphy, William H | Montreal. |
| Murray, George E | Ottawa, Ont. |
| Nares, Basil L | Winnipeg, Man. |
| Nares, H. George | Winnipeg, Man. |
| O'Leary, Frederick J | Saskatoon, Sask. |

| Name. | Home Address. |
|---|---|
| Oliver, Stuart E. | Quebec, P.Q. |
| Oughtred, Lawrence W. | Marbleton, P.Q. |
| Ovalle, N. Keith, B.A. (St. Joseph's) | New York, N.Y. |
| Parker, Stanley D. | Ottawa, Ont. |
| Peck, Hugh A. (Arch.) | Montreal. |
| Pengelley, Walter G. | Balaclava, Jamaica. |
| Philips, Campbell | Westmount. |
| Planche, Clifford C. | Cookshire, P.Q. |
| Pope, Maurice | Ottawa, Ont. |
| Porter, Cecil G. | St. John, N.B. |
| Ray, Hugh P. | Westmount. |
| Raymond, William W. | St. John, N.B. |
| Richardson, Alan I. (Arch.) | Montreal. |
| Richardson, Creighton E. | Montreal. |
| Robertson, Gilbert | Brantford, Ont. |
| Robinson, Duncan S. | Toronto, Ont. |
| Ross, Allan C. | Ottawa, Ont. |
| Ross, Gordon | Phœnix, B.C. |
| Scott, Robert W. | Queenstown, S. Africa. |
| Scrivener, Robert M. | Hay, N.S.W., Australia. |
| Smith, Willard R. | St. John, N.B. |
| Smith, William P | Montreal. |
| Staveley, Walter D. | Montreal. |
| Stevenson, Edward P. | London, Eng. |
| Thompson, Norman A. | Coaticook, P.Q. |
| Underhill, Frederick C. | Vancouver, B.C. |
| Walcott, William H. | St. Michael, Barbados. |
| Walker, G. H. Pearson | Saskatoon, Sask. |
| Watson, Hugh M. | Montreal. |
| Webb, Edward M. | Montreal. |
| White, J. A. Gordon | Woodstock, Ont. |
| Whyte, Harold E. | Victoria, B.C. |
| Willis, Frank S. | Westmount. |
| Willis, George C. | Toronto, Ont. |
| Wilson, Clifford St. J. | St. John, N.B. |
| Wilson, R. Starr L. | Vancouver, B.C. |
| Wilson, T. Edgar | Vancouver, B.C. |
| Wood, Douglas F. | Westmount. |
| Wood, Harold W. | Montreal. |
| Wood, J. Russell | Peterborough, Ont. |
| Wünsch, D. F. Sandys, B.A. (Oxon.) | Knutsford, Eng. |
| Young, John B. | Kentville, N.S. |

## FACULTY OF MEDICINE.

### FIRST YEAR.

| Name. | Home Address. | Where Last Educated. |
|---|---|---|
| Anderson, George C. | New York | Central Sq. H. S., N.Y. |
| Angelus, Alfred | Montreal | French Methodist Inst. |
| Arnott, Charles Albert | Nelson, B.C. | Private Tuition. |
| Audette, Geo. A., B.A. | Ottawa, Ont | St. Mary's Coll., Montr'l. |
| Baby, George Raymond | Hamilton, Ont. | Coll. Inst., Hamilton. |
| Bayne, Archibald Roy | Bridgetown, Barb. | Codrington College. |

| Name. | Home Address. | Where Last Educated. |
|---|---|---|
| Belanger, Philippe | Ottawa, Ont | Ottawa College. |
| Bercovitch, Lyon | Montreal | Hunter's Academy. |
| Brown, William P | Montreal | Montreal High School. |
| Browne, Wm. Alfred S. | Kingston, Jamaica | Ch. of Eng. Grammar Sch |
| Chapin, Claude E | Philadelphia, N.Y | |
| Charters, Goldwin Earl | Coquitlam, B.C | Vancouver College. |
| Chartrand, Harvey A | Ottawa, Ont | |
| Coates, A. Harold | Montreal | Shortell's Academy. |
| Conroy, Herbert J | Peterborough, Ont | Ottawa University. |
| Croft, Thomas Arthur | Vancouver B.C | Columbian College, B.C. |
| Cunnane, Frank John | Meriden, Conn | Meriden High School. |
| Demuth, Otto | Grand Forks, B.C. | Rossland High School. |
| Donnelly, Joseph M | St. John. N.B. | St. Francis Xavier Coll. |
| Driver, Harry Vincent | Montreal | Shortell's Academy. |
| Dwyer, Thomas Ronald | Holyrood, Nfld | Holyrood High School. |
| Eberts, Harold F. H. | Victoria, B.C. | |
| Evans, George Gordon | Vancouver, B.C. | McGill University Coll. |
| Farley, Olin Everett | Lowell, Mass | Lowell High School. |
| Furningham, Alexander M. B.A., (Laval) | Bathurst, N.B. | St. Laurent College. |
| Griffith, Gerald T., B.A., (Laval) | Sherbrooke, P.Q. | Loyola College. |
| Guiou, Norman Miles | Ottawa, Ont | Ottawa Collegiate Inst. |
| Hodge, George E | Cornwall, Ont | Cornwall High School. |
| Hyndman, Alonzo Bowen | Merrickville, Ont | Smiths Falls H.S. |
| Kean, Cecil Darling | St. John's, Nfld | M. Allison Acad., N.B. |
| Knoll, John J | Daysland, Alta | Normal School, Toronto. |
| Laing, George Frederick | Windsor, Ont | Trinity Coll. School. |
| Leeson, Lavell Hall | Vancouver, B.C | Vancouver High School. |
| Legris, Louis J. A | Louiseville, P.Q | Ottawa University. |
| Lipsey, Reuben H. (Dent.) | Montreal | Montreal High School. |
| McBride, Clifford Dawson | Arnprior, Ont | Arnprior High School. |
| MacCallum, Linus M | Charlemagne, P.Q. | Vankleek Hill H. School. |
| McClelland, Alonzo Wright | Cantley, P.Q | Granby High School. |
| McKay, Charles | Stoughton, Sask | Manitou, Man. |
| MacNaughton, Benjamin F. | Salisbury, N.B. | Provincial Normal Sch. |
| Malone, James M. F | Three Rivers, P.Q. | St. Joseph's College. |
| Martin, Arthur John | Ottawa, Ont | |
| Martin, J. Herman | Berlin, Ont | Berlin Coll. Inst. |
| Massiah, Hallam Guy | St. Lucy, Barbados | Codrington College. |
| Mingie, Walter J. E | Montreal | Montreal High School. |
| Neilson, Henry Kenneth | Arnprior, Ont | Arnprior High School. |
| Redman, Rupert C | Hastings, Barbados | Harrison College. |
| Roberts, Gordon William | Ottawa, Ont | Ottawa Coll. Inst. |
| Rothschild, Charles | Sault Ste. Marie, Ont | Sault Ste. Marie H. S. |
| Saunders, Frederic Wm | Bedford, P.Q | Pointe aux Trembles Sch. |
| Scott, William Earl | Montreal | Private Tuition. |
| Seme, Ponqela Lindley | Natal, S. Africa | Va. Theo. Sem. & College. |
| Smith, Emerson | Chesterville, Ont | Chesterville H. S. |
| Steeves, Roy E | Hillsboro, N.B. | Horton Collegiate Inst. |
| Stevenson, Frank White | St. John, N.B. | St. John, H. S. |
| Sutherland, Walter Scroggie | Valleyfield, P.Q. | Gault Institute. |
| Tanney, Ansel Meredith J. | Iroquois, Ont. | Iroquois High School. |
| Templeman, William | St. John's Nfld | St. Bonaventure's Coll. |
| Turner, William Howard | Ottawa, Ont | Ottawa Collegiate Inst. |

| Name. | Home Address. | Where Last Educated. |
|---|---|---|
| Urquhart, James A | Revelstoke, B.C. | Private tuition. |
| Walcott, Francis Sharpe | St. Michael, Barbados. | Harrison College. |
| Walsh, Cecil Owen | Canso, N.S. | St. Francis Xavier Coll. |
| Wert, Harold Clifford | Avonmore, Ont. | Cornwall High School. |
| West, J. Henson | Moncton, N.B. | Horton Collegiate Acad. |
| White, Frank Harris, B.A. | Amherst, N.S. | St. Francis Xavier Coll. |
| Wilkes, A. Burton | Brantford, Ont. | |
| Woodward, Wilfrid | Victoria, B.C. | Victoria High School |

SECOND YEAR.

| Name. | Home Address. |
|---|---|
| Argue, Alan F. | Carp, Ont. |
| Atkinson, Walter S. | Mansfield, Ohio. |
| Barclay, Douglas J. | New Westminster, B.C. |
| Bayne, Henry D. | St. Michael, Barbados. |
| Benning, Charles H. P. G. | Montreal. |
| Brown, Samuel | Hallville, Ont. |
| Brown, Walter A. | Moncton, N.B. |
| Cleveland, Donald E. H. | Cleveland, Ohio. |
| Convery, Ernest B. | Montreal West. |
| Couillard, Albert, B.A. | Ottawa, Ont. |
| Coy, Filmer E. | Vancouver, B.C. |
| Dalpé, Willie G. (Dent.) | Montreal. |
| Daw, William F. | Bay Roberts, Nfld. |
| Denny, James P. | Georgetown, B. Guiana. |
| Dover, Harry | Aylwin, P.Q. |
| Downing, George F. | Rougemont, Que. |
| Fillmore, Millard J. | Advocate Harb., N.S. |
| Fisher, Arthur M. | Woodstock, N.B. |
| Fitzpatrick, Edward J. | Meriden, Conn. |
| Fleet, George A. | Montreal. |
| Gallagher, Joseph F. | Bangor, Me. |
| Gardiner, Egbert | London, Ont. |
| Gold, Maxwell, (Dent.) | Montreal. |
| Grant, William J. | Georgetown, P.E.I. |
| Gross, Harry S. (Dent.) | Montreal. |
| Hartin, David | Nelson, B.C. |
| Hirshberg, Isadore B. | Bay City, Mich. |
| Hutson, Lionel C. | White Pk., Barbados. |
| Illievitz, Abraham B. | Montreal. |
| Jewett, Marcus L. | Cent. Keswick Ridge.N.B. |
| Johnston, Curtis D. | St. Elizabeth, Jamaica. |
| Jones, Thomas A. | Georgetown, B. Guiana. |
| Joyce, Cecil R. | Woodstock, Ont. |
| Kennedy, George L. D. | Ottawa, Ont. |
| King, Alfred E. | Waltham, Mass.. |
| Lee, James C. | Quebec, P.Q. |
| Lennie, Theodore H. | N. Westminster, B.C. |
| Letvinoff, Paul | Vancouver, B.C. |
| Luby, Thomas J. | Meriden, Conn. |
| Lundon, Arthur E. | Canterbury, N.B. |
| Lundon, Charles T. | Canterbury, N.B. |
| Lyons, George A. | Moncton, N.B. |
| McCarroll, Francis L. | Arthur, Ont. |

| NAME. | HOME ADDRESS. |
|---|---|
| MacIntosh, Aden F. | Dundela, Ont. |
| MacKenzie, Henry H. | N. Westminster, B.C. |
| Mann, Arthur H. | Stittsville, Ont. |
| Mason, Edward H. | Providence, R.I. |
| Mendel, David L. | Montreal. |
| Mewburn, Frank H. H. | Lethbridge, Alta. |
| Miller, Robert S. | Demarara, B.G. |
| Moore, William A. | Kaslo, B.C. |
| Morris, Ernest M. | Fall River, Mass. |
| Morrison, D .Arnold. | Maxville, Ont. |
| Murphy, E. V., A.B. (Holy Cross) | Fall River, Mass. |
| Mustard, Hugh R. | Victoria, B.C. |
| Phelps, F. Learn. | Westmount. |
| Pollock, John M. | Berwick, Ont. |
| Powles, Clarence. | Montreal. |
| Rankin, Ramsay D. | Stratford. Ont. |
| Reid, David A. | Providence, R.I. |
| Robbins, C. Douglas. | Yarmouth, N.S. |
| Roberts, Lawrence H. | Ottawa, East, Ont. |
| Ross, Albert. | Blue Mountains, N.S. |
| Ruddick, William W. | St. John, N.B. |
| Ryan, Edward J. | Fairfield, Me. |
| Sahler, S. LeRoy. | Kingston, N.Y. |
| Salo, Matthew A. | Vancouver, B.C. |
| Scott, W. Clifford. | Ottawa, Ont. |
| Sharp, Albert D. | Summerside, P.E.I. |
| Smith, D. Lee. | Vancouver, B.C. |
| Smith, J. Mark. | Kinkora, P.E.I. |
| Smyth, Phillip P. | Toronto, Ont. |
| Solomon, Arthur S. (Dent.) | Montreal. |
| Sproul, Melville J. | Martintown, Ont. |
| Taylor, Walter F. | Charlottetown, P.E.I. |
| Tidmarsh, F. Wendell. | Charlottetown, P.E.I. |
| Waterson, Douglas, B.A. | Westmount. |
| Wathen, James M. (Dent.) | Harcourt, N.B. |
| Wickham, John C., B.A. | St. Lambert, P.Q. |
| Wiley, David E. | Andover, N.B. |
| Windeler, Eric C. H. | Hazel Hill, N.S. |
| Wright, H. P., B.A. (Bishop's) | Ottawa, Ont. |

THIRD YEAR.

| | |
|---|---|
| Astrofsky, Samuel. | Montreal. |
| Atkinson, J. Hedley. | Mansfield, Ohio. |
| Baird, Frederick S. | Bay City, Mich. |
| Beaton, Malcolm. | Caledonia, P.E.I. |
| Beaudry, Joseph H. | Bridgeport, Conn. |
| Bilodeau, Joseph. | N. Westminster, B.C. |
| Boyce, William E. | Rawdon, P.Q. |
| Briggs, Tillman, A. | Victoria, B.C. |
| Brown, Norman. | N. Westminster, B.C. |
| Bruneau, I. Edgar. | Cornwall, Ont. |
| Burrows, Garfield C. | Guelph, Ont. |
| Busteed, Daniel F. | Vancouver, B.C. |
| Cheney, Hill H. | Monticello, Maine. |

| Name. | Home Address. |
|---|---|
| Clark, Lewis E. | Vancouver, B.C. |
| Crowdy, Charles T. | St. John's, Nfld. |
| Cumming, Herbert E. | Russell, Ont. |
| Cumming, John | Winnipeg, Man. |
| DeGarmo, Phillip W. | Kingston, N.Y. |
| Delahey, Allan L. | Pembroke, Ont. |
| Digby, Reginald W. | Brantford, Ont. |
| Dixon, Howard C. | Maple Creek, Sask. |
| Douglas, H. Townley, B.A. | Montreal. |
| Forbes, C. Alexander | Bonavista, Nfld. |
| Foster, Arthur N. | Providence, R.I. |
| Geldert, George M. | Windsor, N.S. |
| Gillis, Raymond A. D., B.A. (Laval & Oxford) | Summerside, P.E.I. |
| Gowdy, William C. | St. Michael, Barbados. |
| Grant, James F. | Victoria, B.C. |
| Grundy, Gordon M. | Long Beach, Cal. |
| Henderson, Arthur T. | Brown's Town, Jamaica. |
| Hickson, Charles R., B.A. | St. John, N.B. |
| Hutton, Willis A. | Lachine, P.Q. |
| Jenkins, John S. | Charlottetown, P.E.I. |
| Jones, Bert Logan, B.Sc. | Sprague, Wash. |
| Kean, Samuel G. | Brookfield, Nfld. |
| Kirkland, Archibald S. | New Westminster, B.C. |
| Kolber, Joseph | Montreal. |
| Krolik, Melville Z. | Winnipeg, Man. |
| Lennox, Thomas H. | Fort Qu'Appelle, Sask. |
| Levine, Edgar C. | Montreal. |
| Lightstone, Bernard (Dent.) | Montreal. |
| Lortie, Antonio | Montreal, |
| MacDermot, Hugh E. | Montreal. |
| McIntyre, George D. | Avonmore, Ont. |
| Mackay, Albert A. | Montreal. |
| McKenty, Arthur J. | Winnipeg, Man. |
| McLean, William J. | Perth, Ont. |
| Macleod, Donald A. | Ottawa, Ont. |
| Malloch, T. Archibald, B.A. (Queen's) | Hamilton, Ont. |
| Malone, Reginald H. | St. John's, B.W.I. |
| Meeker, Jay E. | Malone, N.Y. |
| Melhado, Gerald C. | Old Harbour, Jamaica. |
| Morris, Wesley G. | Regina, Sask. |
| Mulloy, Patrick G. | Toronto, Ont. |
| Munroe, Finlay | Maxville, Ont. |
| Munro, J. Garfield | Woodstock, Ont. |
| Nase, Phillip, B.A.(Mt. Allison) | St. John, N.B. |
| O'Donnell, John E. | Fort William, Ont. |
| Parker, Frederick D. | Wolfville, N.S. |
| Pelletier, Albert | Montreal. |
| Perreault, William, J. | Ottawa, Ont. |
| Phelan, George W. | Ash Point, Maine. |
| Phillips, J. Gordon | Forest, Ont. |
| Purdy, Walter T., B.A. | Amherst, N.S. |
| Ramsey, G. Stuart, B.A. | Quebec, P.Q. |
| Reeves, Charles W. | Atlanta, Ga. |
| Robertson, Russell B. | Vancouver, B.C. |
| Robinson, George | Concord, N.H. |

| NAME. | HOME ADDRESS. |
|---|---|
| Robson, Charles H. | New Westminster, B.C. |
| Rogers, Keith F. | Yarmouth, N.S. |
| Ross, S. Graham. | Montreal. |
| Segal, Jake. | Montreal |
| Smith, Charles H.V. | Montreal, |
| Smith, J. Arthur. | New Westminster, B.C. |
| Strang, Allan M. (Dent.) | Quebec, P.Q. |
| Thomas, Morris W. | Victoria, B.C. |
| Thompson, Allen Edgar. | Coaticook, P.Q. |
| Wall, James T. | Vancouver, B.C. |
| Wheeler, Ralph de F., B.A. | Montreal. |
| Williams, William E. | Mount Pleasant, P.E.I. |

FOURTH YEAR.

| | |
|---|---|
| Aronson, Aaron M. | Montreal. |
| Bancroft, Aubrey G. | Bridgetown, Barbados. |
| Bauld, William A. G., B.A. | Halifax, N.S. |
| Beck, Sem G. | Hecktown, Pa. |
| Bell, Dudley J. | Granville, Yukon. |
| Bourne, Charles R. | New Westminster, B.C. |
| Bourne, Wesley. | Pollards, Barbados. |
| Campbell, Archibald D. | Glencoe, Ont. |
| Canegata, David C., B.A. | Christiansted, D.W.I. |
| Carnell, Arthur H. | St. John's, Nfld. |
| Clarke, T. L. Evelyn. | Barbados, B.W.I. |
| Clouston, Howard R. | Huntingdon, P.Q. |
| Crawford, John W. | Courtenay, B.C. |
| Cunningham, Rutherford B., M.D. (Bishop's) | Montreal. |
| Davies, Andrew P. | Hull, P.Q. |
| Derby, Leonard L. | Plantagenet, Ont. |
| Derome, H. Rupert, B.A. (Laval) | St. Chrysostome, P.Q. |
| Draper, F. Erle. | Montreal. |
| Dryden, Thaddeus A. | Highgate, Jamaica. |
| Ewert, Paul, B.A. (Oberlin) | Gretna, Man. |
| Falardeau, Adelard. | Hull, P.Q. |
| Falconer, Ernest H. | Prentice, Wis. |
| Freeze, David F. D. | Sussex, N.B. |
| Furlong, Harry G. | Norwich, Ont. |
| Furness, Arthur W. | Vernon, P.E.I. |
| Geggie, Harold J. G. | Beauport, P.Q. |
| Gillespie, John Halliday. | Morrisburg, Ont. |
| Glickman, Abraham (Dent.) | Montreal. |
| Gliddon, W. Osborn, B.A. | Ottawa, Ont. |
| Gray, E. Herbert, B.A., B.D. | Montreal West. |
| Gregory, Fred L. | Fairfield, Maine. |
| Hamilton, C. Dickinson. | Cornwall, Ont. |
| Harrison, John, B.A. (Cantab.) | Georgetown, B. Guiana. |
| Havey, Harry B., B.A. (Acadia) | Digby, N.S. |
| Hawkins, Allan B. | St. Michael, Barbados. |
| Hebert, Albert J. | Shawinigan Falls, Que. |
| Houle, Lester G. | Charlottetown, P.E.I. |
| Hunter, Thomas V., M.D. | E. Millinocket, Me. |
| Irven, John J. | Montreal. |
| Kaine, William J., B.A. (Laval) | Brattleboro, Vt. |

| Name. | Home Address. |
|---|---|
| Kearney, Garnet H. | Renfrew, Ont. |
| Legault, J. Horace | Ottawa, Ont. |
| Lewis, D. Sclater, M. Sc. | Montreal. |
| McCreary, Charles H. | Morrisburg, Ont. |
| MacDonald, Dalraddy L., B.A. | La Guerre, P.Q. |
| McGibbon, Roy H. | Montreal. |
| MacHaffie, Lloyd P. | Cornwall, Ont. |
| McKay, Frederick H. | Mt. Stewart, P.E.I. |
| McKim, Laurie H. | Wallace Bridge, N.S. |
| Macleod, James S. | Charlottetown, P.E.I. |
| McMillan, William H. | Brockville, Ont. |
| McNulty, Lloyd T. | Norwood, N.Y. |
| MacNutt, Louis W. | Charlottetown, P.E.I. |
| Marcuse, Otto, B.A. | Westmount. |
| Mavety, J. LeRoy | Ottawa, Ont. |
| Oulton, John R., B.A. | Lorneville, N.S. |
| Planche, H. Howard | Cookshire, P.Q. |
| Reid, Charles M. | Jamaica, B.W.I. |
| Robert, Harold R. | Au Sable Forks, N.Y. |
| Roberts, M. Chesley | Brigus, Nfld. |
| Rosenbaum, J. Jack | Montreal. |
| Scobie, Thomas J. | Kars, Ont. |
| Shannon, W. Lloyd | Vancouver, B.C. |
| Steeves, Harold C., B.A. | Hillsboro, N.B. |
| Stewart, John D | Calgary, Alta. |
| Stewart, John W. | Hampstead, Ont. |
| Stone, W. Ross | Vancouver, B.C. |
| Sutherland, Thomas W. | Saskatoon, Sask. |
| Swaine, Frederick S., B.A. (Mt. Allison) | North East Harbour, N.S |
| Taylor, S. Wesley | Taylor Village, N.B. |
| Vigneux, Maurice J. | Nelson, B.C. |
| Walcott, Edward J. O'N | Christ Church, Barbados. |
| Wallace, Irwin | Belleville, Ont. |
| Walter, Arthur B. | Salt Spring Is., B.C. |
| Webster, Alex. V. | Marie, P.E.I. |

## DIPLOMA OF PUBLIC HEALTH.

| Name. | Home Address. |
|---|---|
| Clarke, John T., M.D. | Toronto, Ont. |
| Hanington, James P., M.D. | Montreal. |
| Jacques, H. M., M.D. | Halifax, N.S. |
| Melvin, George G., M.D. | St. John, N.B. |
| Potter, J. L., M.D. | Halifax, N.S. |
| St. Georges, Henri | Montreal. |

## FACULTY OF LAW.

FIRST YEAR.

| Name. | Home Address. |
|---|---|
| Conroy, Paul S. | Montreal |
| Curry, Nathaniel R. | Montreal. |
| Dunlop, James | Montreal. |
| Elder, Aubrey H., B.A. | Westmount. |

| NAME. | HOME ADDRESS. |
|---|---|
| Fineberg, Nathaniel S., M.A. | Montreal. |
| French, A. K. | Montreal. |
| Gillmor, Daniel Percy | St. George, N.B. |
| Goldwater, Charles | Montreal. |
| Handfield, L. Albert | Montreal. |
| Lunny, William Patrick | Westmount. |
| McDonald, Albert J. | Montreal. |
| McDougall, Edward Stuart, B.A. | Westmount. |
| MacNaughton, John, B.A. (N.B.) | Black River, N.B. |
| Malone, Thomas D. | Three Rivers, P.Q. |
| Mariotti, H. C. George, B.A. | Montreal. |
| Mulvena, Henry Robert, B.A. (Laval) | Sherbrooke, P.Q. |
| Papineau-Couture, René, B.A. | Montreal. |
| Paré, Joseph Hormisdas | Quebec, P.Q. |
| Popliger, Isidore | Montreal. |
| Rabinovitch, Maxwell | Lake Megantic, P.Q. |
| Solomon, Nathan | Montreal. |
| Wilson, Frank Arthur | Winnipeg, Man. |

SECOND YEAR.

| | |
|---|---|
| Angers, August G., B.Sc. (Laval) | Beauceville, P.Q. |
| Boulanger, Joseph Oscar L., B.A. (Laval) | St. Chs. de Bellechasse, P.Q. |
| Burke, Michael T., B.A. (Laval) | Montreal. |
| Cohen, Joseph | Montreal. |
| Coonan, Thomas J. | Montreal. |
| Engel, John A. | Montreal. |
| Fisher, R. Eric, B.A. | Montreal. |
| Gerin-Lajoie, Henri | Montreal. |
| Hale, Charles A., B.A. | Granby, P.Q. |
| Kennedy, Frederic W. | Montreal. |
| Lavery, Salluste, B.A. (Laval) | Montreal. |
| LeBlanc, Wilfrid R. | Kamouraska, Que. |
| LeMesurier, C. Stuart, B.A. | Montreal. |
| Lepine, William H. E. | Ottawa, Ont. |
| Marcus, Marcel | Montreal. |
| Mingie, George W., M.A. | Montreal. |
| Nantel, J. T. Maréchal | Montreal. |
| Pedley, Hugh S., B.A. | Montreal. |
| Plimsoll, A. Reginald W., B.A. | Montreal. |
| Scott, William B., B.A. (Bishop's) | Quebec, P.Q. |
| Sinclair, R. V. Colville | Ottawa, Ont. |

THIRD YEAR.

| | |
|---|---|
| Alexander, George L. | Montreal. |
| Archibald, Kenneth, B.A. | Montreal. |
| Burnett, Ralph | Montreal. |
| Creswell, Harris J., B.A. | Lachute, P.Q. |
| Fisher, William C. | Montreal. |
| Fitch, Louis, B.A. | Quebec, P.Q. |
| Fleet, C. A. Robertson, B.A. | Montreal. |
| Goldenberg, Bernard | Montreal. |
| Hastings, W. Roy, B.A. | Montreal. |
| Macdonald, James, M.A. (Queen's) | Glen Donald, Ont. |

| Name. | Home Address. |
|---|---|
| Merrill, Walter A., B.A. (Laval) | Montreal. |
| Nicholson, Demetrius | Montreal. |
| Owens, T. Sargent, B.A. (Laval) | Montreal. |
| Shanks, Walter R L., B.A. | Fitchburg, Mass |
| Stockwell, Ralph F., B.A. | Danville, P.Q. |
| Walsh, Joseph C. B., B.A. | Montreal. |
| Waterston, Edward J., B.A. | Westmount. |

---

## THE GRADUATE SCHOOL.

### Proceeding to the Degree of Master of Arts.

| Name | Home Address. |
|---|---|
| Astbury, John S., B.A. | Shubenacadie, N.S. |
| Boyle, Gertrude, M., B.A. | Toronto, Ont. |
| Brittain, Isabel E., B.A. | Montreal. |
| Brooks, Murray G., B.A. | Indian Head, Sask. |
| Brown, W. Gordon, B.A., B.Sc. | Montreal. |
| Cliff, H. Welsford, B.A., B.D. | North Lunenburg, Ont. |
| Cockfield, Harry R., B.A. | Montreal. |
| Corbett, Edward A., B.A. | Redvers, Sask. |
| Curtis, W.E. | |
| Estabrooks, Florence C., B.A. | St. John, N.B. |
| Gray, Edwin H., B.A., B.D. | Montreal West. |
| Halpenny, Rev. W. T. | Montreal. |
| Harrison, Ralph D., B.A. | Montreal. |
| Healy, Walter J., B.A. | Montreal. |
| Idler, S. May, B.A. | Montreal. |
| James, Agnes S., B.A. | Montreal. |
| Kneeland, Warren A., B.C.L. | Montreal. |
| Logan, David C., B.A. | Montreal. |
| Macdiarmid, Katie, B.A. | Montreal. |
| MacDonald, Dalraddy L., B.A. | La Guerre, P.Q. |
| MacMillan, William, B.A. | Montreal. |
| Naylor, R. Kenneth, B.A. | Farnham, P.Q. |
| Papineau-Couture, R., B.A. | Montreal. |
| Peron, S. E. H., B.A. (—) | Montreal. |
| Peterson, William G., B.A. | Montreal. |
| Robinson, Bernard S., B.A. | Montreal. |
| Rowell, A. H., B.A. | Montreal. |
| Ryan, Esther L., B.A. | Mattawa, Ont. |
| Smith, Charles A., B.A. | Maxatawny, Pa. |
| Thorne, Oliver, B.A. | Hertford, Eng. |
| Townsend, Louis, B.A. | Montreal. |
| Tremblay, J. Adelard, B.A. | Montreal. |
| Willis, F. Dorothy, B.A. | Toronto, Ont. |
| Wilson, A. Muriel, B.A. | Montreal. |

| Name. | Home Address. |
|---|---|

Proceeding to the Degree of Master of Science.

| | |
|---|---|
| Ball, Harry S. | Johannesburg, S. Africa. |
| Brennan, C. Victor, B.Sc. | Summerside, P.E.I. |
| Bronson, Frederick E., B.Sc. | Ottawa, Ont. |
| Brunton, J. S. L., B.Sc. | London, Eng. |
| Cameron, James S., B.Sc. | Stellarton, N.S. |
| Campbell, Edmund E., B.Sc. | Belmont, P.E.I. |
| Clawson, Ernest E., B.Sc. | St. John, N.B. |
| Cole, L. Heber, B.Sc. | Montreal. |
| Cox, John R., B.Sc. | Surrey, Eng. |
| Davidson, W. A., B.Sc. | Coleman, Alta. |
| Dick, William J., B.Sc. | Nanaimo, B.C. |
| Ferris, Charles E., B.Sc. (Tennessee) | Knoxville, Tenn. |
| Fetherstonhaugh, Edward P., B.Sc. | Winnipeg, Man. |
| Fyshe, Thomas M., B.Sc. | Montreal. |
| Gibbins, Gywnn G., B.Sc. | Vancouver, B.C. |
| Gillespie, Peter, B.A., B.Sc.(Toronto) | Toronto, Ont. |
| Gillies, George A, B.Sc. | Braeside, Ont. |
| Gray, Harold H., B.Sc. (Manchester) | Barnsley, Yorkshire, Eng. |
| Hammond, Harold S., B. S. A. (Toronto) | Ste. Anne de Bellevue, P.Q. |
| Harris, Norman C., B.Sc. | Brighton Beach, Australia. |
| Haughton, Harold M. S., B.Sc. | Kingston, Jamaica. |
| Judd, Leon D., B.Sc. | Great Bend, Pa. |
| Lamb, Henry M., B.Sc. | Montreal. |
| Lathe, Frank E., B.A., B.Sc. | Lacolle, P.Q. |
| MacNaughton, A. G. L., B. Sc. | Montreal. |
| Matheson, H. W., B.Sc. | Lime Rock, N.S. |
| Merrill, Arthur J. | Montreal. |
| Munn, D. Walter, B.Sc., M.A. | Vancouver, B.C. |
| Nicolls, Jasper H. H., B.Sc. | Westmount. |
| Piers, E. O. Temple, B.Sc. | Montreal. |
| Stansfield, John, B.Sc. | York, Eng. |
| Thomas, Franklin, B. Eng. (Iowa) | Crossfield, Alta. |
| Timberlake, J. N., B.Sc. | Montreal. |
| Trimingham, J. H., B.Sc. | Hamilton, Bermuda |
| Wheeler, Nathaniel E., B.Sc. (—) | Manchester, N.H. |

Proceeding to the Degree of Doctor of Philosophy.

| | |
|---|---|
| Abramowitz, H., A.B. (—) | Montreal. |
| Allen, T. B., M.A. (—) | Montreal. |
| Batho, Cyril, M.Sc. | Montreal. |
| Boehner, Richard S., M.A. | Paradise, N.S. |
| Christie, Clarence V., B.Sc., M.A. | Westmount. |
| Gillis, Norman R., M.Sc. | Hartsville, P.E.I. |
| Gordon, Nathan, M.A. | Montreal. |
| Ince, J. W., M.A. | |
| Nicholson, John C., B.A. | Sherbrooke, P.Q. |
| Robertson, Arthur F., M.Sc. | Montreal. |
| Scrimgeour, Charles E., M.A. (St. Andrew's) | Montreal. |
| Shaw, Albert N., B.A. | Westmount, P.Q. |
| Tyndale, Orville S., M.A. | Montreal. |
| Villard, Paul, M.D. | Westmount. |

# AFFILIATED COLLEGES.

## McGILL UNIVERSITY COLLEGE OF BRITISH COLUMBIA

(AT VANCOUVER).

(*In Arts*)

FIRST YEAR.

Appleton, Harold
Balkwill, Agnes Blanche
Beveridge, William Wentworth
Bezeau, Gladys
Bodie, Isabel Anne
Bodie, Robert Charles
Brockwell, Muriel Adelaide
Bruce, Graham..
Buchanan, Harry
Buchanan, John Hunter
Buck, Frank Hepworth
Burnett, Ethel Caswell
Busby, Constance Aileen
Carruthers, Irene Frances
Chalmers, David Alexander
Clark, Robert James
Cousins, Olive Evelyn Joy
Creighton, Alice
de Wolf, Tempest Carroll St. E.
Drost, Herbert Mason
Duncan, Charles France
Eakin, Hugh Alexander
Eckhardt, Harold Alexander
Ewin, Ethel Mary
Ford, George Smith
Frame, William Layton
Fulton, James
Gerard, Minnie Dorothy
Gibson, Henry James
Glass, John Campbell
Grant, Angus McMillan
Greggs, Ruby Luella
Harris, Marjorie Helen
Hosang, Bertha Gladys
Howell, Benjamin Henry
Ireland, Eva Frances
Kirkpatrick, Adam Alexander G.
Laidlaw, Anna Campbell
Leslie, James Adam
Logan, Clement
McArthur, Hazel Ann
McDonald, John Alexander
Macdonald, Lennie Hay
McIver, Angus, Morrison
Mackenzie, Frank Scott
McKinnon, Annie McLeod
MacLean, Archibald
McLean, John James M.
MacMillan, Marjorie Cameron
Macnaghten, Ronald Frederick
McNeill, Chester Wilson
McNeill, Donald
McNiven, Margaret
McTavish, Charles Hugh
Madill, Edna Ruth
Marshall, Elsie May
Middlemiss, Edith Amelia
Milton, Ada Mary
Moodie, Stanley Fyfe
Morgan, Clovis Browning
Mude, Mona
Northrop, Harold
Paddon, Annie Louise
Pim, Laura May
Pye, Bessie
Rogers, Gladys Emma
Ross, Douglas William
Shearman, Arthur Evans
Smith, Hedley Marshall
Story, Mary Elizabeth
Taylor, William Scott
Todhunter, Jessie Florence
Treleaven, George Otto
Upham, George Ashton
Vermilyea, Ada Irene
Vermilyea, Beula Beatrice
Wallace, Bryce Young H.
Wilson, Arthur Louis
Wright, Stephen Vickers.

SECOND YEAR.

Austin, Edna E.
Baldwin, Sidney G.
Barrett, Harry A.
Bolton, Grace A.
Busby, Eldon D.
Cairnes, Clive E.
Davison, Frank C.
DePencier, Winnifred M.
DesBrisay, E. Merrill
Dunbar, Robert G.
England, Violet
Esperon, Oscar C.
Forster, David S.
Gilbert, Reginald H.
Hardy, Netta
Keenleyside, Alice M.
Kirkpatrick, Earl A. B.
Letvinoff, Annie
McKay, Angus H.
Maclean, Archibald
McNaughton, Harold A.
Munro, Sadie H.
Poupore, William E.
Reid, Hugh S.
Ryan, Frank M.
Sargent, Rey A.
Schwengers, Ada A.
Schwesinger, Gladys C.
Scott, Cecil Oscar
Scott, Sydney D.
Smith, Wilfred M.
Wilkinson, Thomas L.

Wilson, Ray H.

THIRD YEAR.

Corry, Alice C.
Greggs, Gladys E.
Holland, Richard R.
Lehmann, Mary Edna
Muddell, Edward C.
Papke, Erna C.

(*In Applied Science*)

FIRST YEAR.

Bell-Irving, Robert
Collyer, Charles T.
Earle, George A.
Emanuels, H. S.
Fisher, Aubrey S.
Flitton, Ralph C.
Fullerton, James T.
Henderson, Roy G.
Hodsdon, Donald W.
Holland, Frederick W.
Hughes, H. C.
Ingram, G. A. W.
McNaughton, Ira J.
Mellish, John F.
Muir, W. J.
Ney, John S.
Perry, Rolf S.
Scott, John
Stewart, Carroll A.
Taylor, Edward A.
Whyte, Sydney

SECOND YEAR.

Armytage, M. G.
Bell, H. G.
Carson, J. A.
Chave, E. H.
Draper, R.
Lyche, N. E.
McRae, J. G.
O'Brien, Colter
Sawers, B. L.
Stone, H. G.

Underhill, J. T.

(AT VICTORIA)

(*In Arts*

FIRST YEAR.

Allen, G. W. B.
Bruskey, Jessie V.
Burridge, C.N.
Dowler, J. W. D.
Dunn, Frank
Fox, Dorothy A.
Hanington, F. C.
Hinds, Bernice J.
Holmes, M. C.
Norris, George E.
O'Meara, K. M. N.
Ramsay, Jean D.
Ryan, Grace L.
Salmon, D. C.
Sivertz, H. G.
Stevens, D. O. V.
Wolfenden, Madge
Yeo, E. L.

SECOND YEAR.

Adams, Vera G.
Beattie, Hester E.
Caldwell, Sada St. C.
Clay, Margaret J.
Drury, Kenneth C.
Hewlings, G. N.
McInnes, Robt.
Moore, Joseph D.
Norris, Thomas
Williscroft, G.

# STUDENTS IN ATTENDANCE, SESSION 1910-1911.

## SUMMARY.

| | | |
|---|---|---|
| Students in Law | | 60 |
| Students in Arts, McGill College— | | |
| Men—Undergraduates | 202 | |
| Conditioned | 22 | |
| Partial | 95 | |
| Women—Undergraduates | 101 | |
| Conditioned | 3 | |
| Partial | 37 | |
| Partial students taking special courses for Teachers | 21 | |
| Students in Arts, McGill University College of B.C. | 118 | |
| Students in Arts, Victoria College | 28 | |
| | | 627 |
| Students in Applied Science:— | | |
| Undergraduates | 461 | |
| Conditioned | 38 | |
| Partial | 79 | |
| Students in Applied Science, McGill University College of B.C. | 32 | |
| | | 610 |
| Students in Medicine:— | | |
| Undergraduates | 269 | |
| Conditioned | 27 | |
| Partial | 8 | |
| | | 304 |
| Students in Music | | 73 |
| Graduates in Medicine taking course for Diploma of Public Health | | 6 |
| Students in Graduate School | | 83 |
| Students taking Extension Lectures | | 160 |
| Students in French Summer School | | 80 |
| | | 2003 |
| Deduct repeated in different faculties | | 34 |
| | | 1969 |
| Students in Macdonald College | | 325 |
| Total | | 2294 |

# UNIVERSITY AND GRADUATES' SOCIETIES.

## The Students' Society of McGill University.

(OFFICERS 1911-1912.)

*President*—G. S. Ramsey, Med. '12.
*Vice-President*—To be elected.
*Treasurer*—To be elected.
*Secretary*—W. C. Common.

*Executive Council.*

G. S. Ramsey, Med. '12, Chairman.
M. I. Robinson, '12, President Arts Undergraduates Society.
J. P. McRae, '12, President Applied Science Undergraduates Society.
T. W. Sutherland, President Medical Society.
M. Burke, '12, President Undergraduates Society in Law.
A. M. Strang, Med. '12, President The McGill Union.
Dan. P. Gillmor, Law '13, President The Rugby Football Club.
A. E. Sargent, Sci. '12, President Hockey and Skating Club.
W. E. G. Murray, Arts '12, President The Track Club

## The McGill Union.

(OFFICERS 1911-1912.)

*President*—A. M. Strang, Med. '12.
*Vice-President*—John Macnaughton, Law '13.
*Secretary*—L. P. MacHaffie, Med. '12.
*Treasurer*—Walter Molson.
*Assistant Secretary-Tneasurer*—W. C. Common.

## Undergraduates' Literary and Debating Society.

(OFFICERS 1911-1912.)

*Honorary President*—Principal Peterson, C.M.G.
*President*—W. E. G. Murray, Arts '12.
*Vice-President*—N. S. Fineberg, Law '13.
*Secretary*—A. S. Bruneau, Arts '13.
*Assistant Secretary*—C. E. Babcock, Arts '12.
*Treasurer*—H. E. Herschorn, Arts '11.

## Undergraduates' Society in Arts.

(OFFICERS 1910-1911.)

*President*—George Weir, '11.
*Vice-President*—W. J. Pearse, '12.
*Secretary*—Norman Johnson, '14.
*Treasurer*—A. S. Bruneau, '13.

## Undergraduates' Society in Applied Science.

(OFFICERS 1911-1912.)

*President*—J. P. McRae, '12.
*Vice-President*—A. E. Sargent, '12.
*Secretary*—H. D. Chambers, '13.
*Treasurer*—K. A. Reeder, '13.
*Assistant Secretary*—C. H. Harding, '14.

## Undergraduates' Society in Law.

(OFFICERS 1910-1911.)

*President*—W. A. Merrill, '11.
*Vice-President*—C. A. Hale, '12.
*Secretary*—E. S. McDougall, '13.
*Treasurer*—R. F. Stockwell, '11.

## Physical Society.

(OFFICERS 1910-1911.)

*President*—Dr. A. S. Eve.
*Vice-President*—F. H. Day, M.Sc.
*Secretary-Treasurer*—A. Norman Shaw, M.Sc.
*Executive Committee*:—The above named officers with Dr. H. T. Barnes and Prof. N. N. Evans.

## Chemical Society.

(OFFICERS 1910-1911.)

*President*—Dr. F. M. G. Johnson.
*Vice-President*—Prof. N. N. Evans.
*Secretary-Treasurer*—W. B. Meldrum, M.Sc.
*Executive Committee*—The above named officers with Dr. H. T. Barnes and Dr. R. F. Ruttan.

## Medical Society.

(OFFICERS 1911-1912.)

*Honorary President*—Dr. W. W. Chipman.
*President*—T. W. Sutherland, '12.
*Vice-President*—J. Stewart, '12.
*Treasurer*—W. G. Morris, '13.
*Secretary*—H. D. Bayne, '14.
*Assistant Secretary*—G. T. Griffith, '15.

## Mining Society.

(Officers 1911-1912.)

*Honorary President*—Dr. J. B. Porter.
*President*—A. E. W. Hannington, '12.
*Vice-President*—L. H. Gass, '12.
*Secretary-Treasurer*—St. C. McEvenue, '13.

## Historical Club.

(Officers 1911-1912.)

*Honorary President*—Dr. C. W. Colby.
*President*—B. St. G. French, '12.
*Vice-President*—H. F. Thomson, '12.
*Secretary*—H. L. Johnson, '12.
*Treasurer*—P. E. Corbett, '13.

## Electric Club.

(Officers 1910-1911.)

*Honorary President*—Prof. L. A. Herdt.
*Hon. Vice-President*—C. V. Christie, B.Sc.
*President*—R. M. Scrivener, '11.
*Secretary*—R. H. Mather, '12.
*Treasurer*—E. A. Ryan, '12.

## The Readers' Club.

(Officers 1911-1912.)

*Honorary President*—Dean Moyse.
*President*—H. L. Johnson, Arts '12.
*Vice-President*—Miss E. C. Longworth, Arts '12
*Secretary-Treasurer*—H. D. Henry, Arts '13.

## Philosophical Society.

(Officers 1911-1912.)

*Honorary President*—Dr. J. W. A. Hickson.
*President*—W. S. Percival, '12.
*Vice-President*—W. P. Hughes, '12.
*Secretary-Treasurer*—H. P. Honey, '13.

## The Science '12 Debating Club.

(Officers 1910-1911.)

*Honorary President*—Dr. H. T. Barnes.
*President*—R. L. Cummer.
*Vice-President*—J. W. McCammon.
*Secretary-Treasurer*—A. K. Hugessen.

## The Science '13 Debating Club.

(OFFICERS 1911-1912.)

*President*—W. G. Mitchell.
*Vice-President*—J. R. Donald.
*Secretary*—R. C. Dempster.
*Treasurer*—H. R. Mais.

## Cercle Francais.

(OFFICERS 1911-1912.)

*Honorary President*—Dr. H. Walter.
*President*—A. Mathewson, Arts '12.
*First Vice-President*—J. H. Bieler, Arts '13.
*Second Vice-President*—N. S. Fineberg, Law '13.
*Secretary-Treasurer*—B. L. Silver, Arts '13.

## Societe Francaise.

(OFFICERS 1911-1912.)

*Honorary President*—Mlle Bianquis.
*President*—Miss E. Harris, '12.
*Vice-President*—Miss R. de L. LaRivière, '13.
*Secretary-Treasurer*—Miss A. B. Mace, '14.

## Delta Sigma Society.

(OFFICERS 1911-1912.)

*Honorary President*—Miss Cameron.
*President*—Miss Vera Brown, '12.
*Vice-President*—Miss Dorothy Duff, '13.
*Secretary-Treasurer*—Miss Helen Willis, '14.

## Young Men's Christian Association of McGill.

All members of McGill University, and of the affiliated Colleges, are welcomed as Associate Members; the active membership comprises those who are church members, or who subscribe to a simple statement of faith, and approve the objects of the Association.

The home of the Association is Strathcona Hall, which, in addition to affording ample accommodation for the work of the Association as a whole, provides residence for sixty-seven men.

Full particulars regarding the work of the Association are given in the annual Hand Book, and will also be supplied by the General Secretary of the Association.

(Officers 1911-1912.)

*Honorary President*—Dr. Alex. Johnson.
*President*—W. H. Young, Arts '12.
*1st Vice-President*—K. W. Dowie, Sci. '12.
*2nd Vice-President*—R. L. Cummer, Sci. '12.
*Recording Secretary*—A. T. Henderson, Med. '13.
*Treasurer*—W. F. McConnell, Arts '14.
*Assistant Treasurer*—H. A. Calkins, Sci. '12.
*General Secretary*—E. R. Paterson, B.A.
*Assistant Secretary*—G. H. Fletcher, B.A.
*Foreign Secretary*—M. G. Brooks, B.A.

Chairmen of Committees,

*Advisory*—Dean Adams.
*Religious Meetings*—H. L. Johnson, Arts '12.
*Bible Study*—H. F. Thomson, Arts '12.
*House*—A. Stalker, Arts '12.
*Social*—L. H. Gass, Sci. '12.
*Finance*—W. F. McConnell, Arts '14.
*Student Finance*—H. A. Calkins, Sci. '12.
*New Student and Membership*—D. L. Macaulay, Arts '13.
*Industrial and Social Service*—R. L. Cummer, Sci. '12
*Mission Study*—J. A. Coote, Sci. '14.

## Young Women's Christian Association of McGill University.

(Officers 1911-1912.)

*Honorary President*—Mrs. F. D. Adams.
*President*—Miss Violet MacEwen, '12.
*Vice-President*—Miss Kathleen Wilder, '13.
*Recording Secretary*—Miss I. McCaw, '14.
*Corresponding Secretary*—Miss Dorothy Duff, '13.
*Treasurer*—Miss Anna Williams, '14.

## Amateur Athletic Association.

(Officers 1911-1912.)

*President*—K. W. Dowie, Sci. '12.
*Vice-President*—H. T. Douglas, Med. '12.
*Secretary*—H. L. Edwards, Sci. '12.

## Royal Victoria College Athletic Club.

(Officers 1911-1912.)

*Honorary President*—Miss Lichtenstein.
*Honorary Vice-President*—Miss Cartwright.
*President*—Miss E. Oughtred, '12.
*Vice-President*—Miss O. A. Reinhardt, '13.
*Secretary-Treasurer*—Miss I. McCaw, '14.

## Rugby Football Club.

(OFFICERS 1911-1912.)

*Honorary President*—Dr. Vaughan Black.
*Honorary Treasurer*—George C. McDonald, B.A.
*President*—D. P. Gillmor, Law '13.
*Vice-President*—R. W. Digby, Med. '12.
*Secretary*—S. G. Ross, Med. '13.
*Treasurer*—A. Turnbull, Sci. '12.
*Manager*—A. P. Davies, Med. '12.
*Captain*—G. A. Johnson, Sci. '12.

## Association Football Club.

(OFFICERS 1911-1912.)

*Honorary President*—Dr. H. T. Barnes.
*President*—James F. Grant, Med. '13.
*Vice-President*—A. R. Bain, Med. '14.
*Secretary*—H. E. Cumming, Med. '13.
*Treasurer*—J. E. Bissett, Arts '11.
*Captain*—M. Beaton, Med. '13.

## English Rugby Football Club.

(OFFICERS 1911-1912.)

*Honorary President*—Professor E. Brown.
*President*—J. K. Crossfield, Sci. '13.
*Vice-President*—J. J. McNivin, Sci. '12.
*Secretary-Treasurer*—H. R. Mais, Sci. '13.
*Captain*—D. A. MacKinnon, Sci. '12.

## Track Club.

(OFFICERS 1911-1912.)

*Honorary President*—Dr. C. J. Macmillan.
*Honorary Treasurer*—Prof. T. W. Ludlow.
*President*—W. E. G. Murray, Arts '12.
*Vice-President*—Allan Thompson, Sci. '12.
*Treasurer*—R. E. L. Hollinsed, Sci. '12.
*Secretary*—H. Smith, Arts '12

## Hockey and Skating Club.

(OFFICERS 1911-1912.)

*Honorary President*—W. S. Lea, M.Sc.
*President*—A. E. Sargent, Sci. '12.
*Vice-President*—C. F. K. Woodyatt, Sci. '12.
*Secretary*—Ernest Paisley, Sci. '14.
*Treasurer*—Allan E. Thompson, Med. '13.

## Basket Ball Club.

(Officers 1911-1912.)

*Honorary President*—Dr. H. T. Barnes.
*President*—H. F. Thomson, Arts '12.
*Vice-President*—C. M. Duffield, Sci. '12.
*Secretary-Treasurer*—Geo. Kennedy, Med. '14.
*Manager*—C. D. Calder, Sci. '13.
*Assistant Manager*—J. H. Dixon, Sci. '13.

## Boxing Club.

(Officers 1911-1912.)

*Honorary President*—Prof. C. M. McKergow.
*President*—H. G. Rogers, Sci. '13.
*Vice-President*—H. E. Cumming, Med. '13.
*Secretary*—L. Putnam, Arts '14.
*Treasurer*—H. R. Mais, Sci. '13.

## Rifle Association.

(Officers 1910-1911.)

*Honorary President*—Dr. Gregor.
*Honorary Vice-President*—Major Eaton.
*Honorary Captain*—Major Mitchell.
*Captain*—R. E. Hollinsed, Sci. '10.
*Lieutenants*—C. E. W. Hannington, Sci. '12; L. H. McKim, Med. '12.
*Squad-Sergeants*—W. M. McLeod, Arts '13; K. A. Reeder, Sci. '13; W. A. Hutton, Med. '13; A. F. Duguid, Sci. '11.
*Secretary-Treasurer*—J. H. Atkinson, Med. '13.

## Fencing Club.

(Officers 1911-1912.)

*Honorary President*—Cecil S. Burgess.
*President*—W. Roy Smith, Sci. '11.
*Secretary-Treasurer*—N. Roy Dalton, Sci. '13.

## Swimming Club.

(Officers 1911-1912.)

*Honorary President*—Dr. H. T. Barnes.
*President*—S. Astrofsky, Med. '13.
*Vice-President*—G. C. Draper, Sci. '14.
*Secretary*—D. L. Smith, Med. '14.
*Treasurer*—H. E. Herschorn, Law '14.

## Lawn Tennis Club.

(OFFICERS 1911-1912.)

*Honorary President*—C. E. Moyse, LL.D.
*President*—C. F. K. Woodyatt, Sci. '12.
*Vice-President*—T. G. Randolph, Sci. '12.
*Secretary-Treasurer*—H. E. MacDermot, Med. '13.

## Wrestling Club.

(OFFICERS 1911-1912.)

*President*—R. S. McBeath, Sci. '13.
*Vice-President*—J. F. B. Davies, Sci. '13.
*Secretary-Treasurer*—G. A. Audette, Med. '15.

## Harrier Club.

(OFFICERS 1911-1912.)

*Honorary President*—Prof. T. W. Ludlow.
*President*—A. E. Thompson, Med. '13.
*Vice-President*—J. A. Grant, Med. '13.
*Secretary-Treasurer*—E. B. Reid, Arts '14.
*Captain*—W. E. G. Murray, Arts '12.

## Western Club of McGill University.

The Club has for its objects the furthering of the interests of McGill in the four Western Provinces and the helping of new students to McGill from these Provinces.

Students from Manitoba, Saskatchewan, Alberta or British Columbia coming to McGill for the first time are requested to communicate with the Secretary of the Club, care The Union, McGill University, Montreal.

(OFFICERS 1911-1912.)

*Honorary President*—Dr. F. D. Adams.
*President*—J. J. McNiven, Sci. '12.
*Vice-President*—H. C. Dixon, Med. '14.
*Secretary-Treasurer*—J. T. Wall, Med. '13.
*Assistant Secretary-Treasurers*—C. R. Chaffey, Sci. '12; R. H. Green, Arts '12.
*Committee*: British Columbia—R. A. Kirkpatrick, Sci. '13; Alberta—M. E. Malhiot, Sci. '13; Saskatchewan—K. A. Reeder, Sci. '13; Manitoba—C. S. Hample, Sci. '13.

## The Maritime Club of McGill University.

The object of this club, which was formed last session by the amalgamation of the Nova Scotia, and New Brunswick and Prince Edward Island clubs,—is to promote, in every way possible, the best interests of students coming to McGill from the Maritime Provinces and Newfoundland. Such students are urgently requested to communicate with the Secretary of the Club at Strathcona Hall, who will be glad to render them all assistance in his power.

(Officers 1911-1912.)

*Hon. President*—Dr. W. W. Chipman.
*President*—G. M. Geldert, Med. '13.
*Vice-President*—D. L. McLeod, Sci. '12.
*Treasurer*—K. F. Rogers, Med. '14.
*Secretary*—J. MacNaughton, Law '13.
*Asst. Secretary*—C. A. Forbes, Med. '13.

## The Canadian Club of McGill University.

"It is the purpose of the Club to foster patriotism by encouraging the study of the institutions, history, arts, literature, and resources of Canada, and by endeavouring to unite Canadians in such work for the welfare and progress of the Dominion as may be desirable and expedient."

Any male undergraduate of the University, who is in sympathy with the objects of the Club, shall be eligible for membership.

(Officers 1911-1912.)

*President*—C. S. Lemesurier, Law '12.
*1st Vice-President*—John Macnaughton, Law '13.
*2nd Vice-President*—J. W. McCammon, Sci. '12.
*Secretary*—J. A. Mathewson, Arts '12.
*Treasurer*—F. E. Morkill, Sci. '12.

## Alumnae Association of McGill University.

(Officers 1911-1912.)

*President*—Miss S. E. Cameron.
*Vice-Presidents*—Mrs. D. McIntosh; Mrs. A. F. Byers; Miss L. M. King; Miss H. M. Kydd.
*Rec. Secretary*—Miss I. M. Hurst.
*Assistant Secretary*—Miss Ruth Mount.
*Corres.-Secretary*—Miss C. I. MacKenzie.
*Asst. Corres.-Secretary*—Miss R. Norris.

## University Settlement Club.

(Officers 1911.)

*President*—Professor J. A. Dale.
*Vice-President*—Mrs. Douglas McIntosh, M.Sc.
*Treasurer*—Mrs. W. Hodges, B.A.
*Secretary*—Gordon St. G. Sproule, M.Sc.

## McGill University Oriental Society.

(Officers 1910-1911.)

*President*—Prof. C. A. Brodie Brockwell.
*Vice-President*—Rev. Nathan Gordon, M.A.
*Secretary*—C. E. Scrimgeour, M.A.
*Treasurer*—T. J. McVittie.

## Ottawa Valley Graduates' Society.

(OFFICERS 1911.)

*Honorary President*—Sir James Grant, K.C.M.G.
*President*—P. D. Ross, B.A.Sc.
*Vice-Presidents*—Sheriff G. C. Richardson, M.D.; Wm. Gamble, B.C.L.; J. B. McRae, B.A.Sc.
*Treasurer*—Dr. C. E. Preston.
*Secretary*—Sidney C. Ells, B.Sc., Geological Survey.
*Council*—Capt. R. de B. Corriveau, B.Sc.; Dr. R. Hugh Ells; Dr. C. T Ballantyne,; R. L. Haycock, B.A.Sc.; Dr. H. C. Church; Geo. C. Wright, B.A., B.C.L.

## New York Graduates' Society.

(OFFICERS 1911.)

*President*—Henri A. Coussirat, B.Sc.
*1st Vice-President*—George Massey.
*2nd Vice-President*—Dr. W. B. Gibson.
*Treasurer*—Gordon Gibson, M.D.
*Secretary*—F. G. Wickware, B.A., B.Sc., The Engineering Magazine. 140 Nassau St., New York City.
*Governors*—Class of 1912: Dr. David S. Likely and Dr. H. J. Schwartz; Class of 1913: T. M. McLeod, B.A.Sc. and Dr. L. M. Ryan. Class of 1914: Wm. H. Warren, B.A.Sc. and James A. Stephenson, B.A.Sc.

## McGill Alumni Association of Chicago.

(OFFICERS.)

*President*—Dr. Andrew Stewart.
*1st Vice-President*—Dr. Norman Kerr.
*2nd Vice-President*—Dr. R. D. MacMartin.
*Secretary-Treasurer*—Dr. C. H. Long, 36 Washington St., Chicago, Ill.
*Councillors*—Dr. J. B. Loring, John Ryan, D.V.S..

## McGill Graduates' Society of Honan, China.

(OFFICERS.)

*President*—Wm. McClure, B.A., M.D.
*Vice-President*—P. C. Leslie, M.D.
*Secretary-Treasurer*—W. J. Scott, B.A., M.D., Hwai Chang Fu, N. Honan, China.

## McGill Graduates' Society of Manitoba.

*Honorary Patron*—The Right Hon. Lord Strathcona and Mount Royal.
*Honorary President*———————
*President*—C. A. MacKenzie, M.D.
*Vice-Presidents*—W. A. Duff, B.Sc.; Harvey Smith, M.D.; C. H. Mansur, B.A., B.C.L.; F. W. Torrance, D.V.S.
*Secretary*—F. W. Anderson, B.Sc.
*Treasurer*—A. R. Dufresne, B.A.Sc.
*Executive Committee*—John Graham, B.A.; E. P. Fetherstonhaugh, B.Sc.; C. C. Gwyn; D. McKay, M.D.; C. E. Fortin, M.D.; George Northwood; R. K. McClung, D.Sc.; W. E. Murphy, B.Sc.; J. A. Heaman, B.Sc.; J. A. Flanders, B.A.

## McGill Graduates' Society of British Columbia.

*Honorary President*—S. J. Tunstall, M.D., C.M.
*President*—W. B. Burnett, M.D.
*Vice-Presidents*—W. P. Ogilvie, B.C.L.; H. Robertson, M.D.; J. W. Woods, M.D.; W. Dickson, M.D.; S. J. Blaylock, M.E.; M. Sullivan, B.Sc.
*Secretary-Treasurer*—A. E. Foreman, B.Sc., 1105 Haro St., Vancouver.
*Executive*—G. W. Boggs, M.D.; L. Robertson, M.A.; P. A. McLennan, M.D.; F. S. Keith, B.Sc.; A. L. Kendall, M.D.; D. McTaggart, B.C.L.

# McGill University

## REPORT OF THE

## Faculty of Applied Science

Honours in the Graduating Class of the Faculty of Applied Science, and Presentation of Medals, Certificates and Prizes, as follows:—

(Names in alphabetical order.)

Boyd, Laurence Chadwick—Honours in Industrial Chemistry, Organic Chemistry.

Callander, Delmer Wallace—Honours in ElectricalEngineeringLaboratory.

Clark, Raymond Brooke—Second Prize for paper read before the Undergraduates' Society of Applied Science.

de Hart, Joseph Bertram (B.Sc.)—James Douglas Research Fellowship; Honours in Geology, and Field Work in Mining.

Earle, Harry—Honours in Bridge Design and Theory of Structures.

Eldridge, Gardner Smith—Honours in General Metallurgy; Drummond First Prize for Summer Essay.

Galloway, John Davidson—Sir William Dawson Fellowship in Mining; British Association Medal and Prize; Honours in General Metallurgy, Geology, Mining and Mining Design, and Field Work in Mining.

Gnaedinger, Cedric Walter—Honours in Mechanics of Machines.

Gregory, Philip Stancliffe—British Association Medal and Prize; Honours in Electrical Engineering, Electric Traction and Electric Light and Power Distribution, and Electro-Metallurgy.

Kearney, Graham—Honours in Electrical Engineering, and Electrical Engineering Laboratory.

Linagh, Ronald King—British Association Medal and Prize; Honours in Machine Design and Designing, Mechanics of Machines, Mechanical Engineering and Mechanical Engineering Laboratory, and Hydraulics.

Macaulay, James Robert—Honours in Inorganic Quantitative Analysis and Physical Chemistry.

MacDonald, George Heath—Honours in Architectural Design and Professional Practice.

Macdonald, Jeremiah James—British Association Medal and Prize; Honours in Bridge Design and Hydraulics; Greenshields Prize for Summer Essay.

McLeod, Allan Cameron—British Association Medal and Prize; Honours in Transportation subjects.

Murray, George Ernest—James Douglas Research Fellowship; Honours in General Metallurgy, Geology, Ore Dressing and Laboratory.

Nares, Basil Llewellyn—Greenshields Prize for Summer Essay.

Porter, Cecil George—Honours in Metallurgical Design and Metallurgical Laboratory Part II.; Hersey Prize for Summer Essay.

Richardson, Alan Irving—Honours in Modern Architecture and Theory of Planning.

Scrivener, Robert Massey—Honours in Hydraulics.

Staveley, Walter D.—Prize for Summer Essay.

Walker, George Henry Pearson—British Association Medal and Prize; Honours in Inorganic Quantitative Analysis, Physical Chemistry and Electro-Metallurgy.

Webb, Edward Mitchell—Prize for Essay in the Mechanical Section of the Canadian Society of Civil Engineers.

Wunsch, Donald Frederick Sandys—First Prize for paper read before the Undergraduates' Society of Applied Science; Honours in General Metallurgy and Geology.

## PASSED FOR THE DEGREE OF BACHELOR OF ARCHITECTURE.

(In order of merit.)

MacDonald, George Heath, Murray Harbour North, P.E.I.
Richardson, Alan Irving, Montreal, Que.
Peck, Hugh A., Montreal, Que.
Hawkins, Stuart Schofield, Ottawa, Ont.

## PASSED FOR THE DEGREE OF BACHELOR OF SCIENCE.

(In order of merit.)

### IN ARCHITECTURAL ENGINEERING.

Little, Harold Robert, London, Ont.

### IN CHEMISTRY.

Macaulay, James Robert, Montreal, Que.

### IN CHEMICAL ENGINEERING.

Walker, George Henry Pearson, Saskatoon, Sask.
Boyd, Laurence Chadwick, Bobcaygeon, Ont.

### IN CIVIL ENGINEERING.

Macdonald, Jeremiah James, Vernon River, P.E.I.
Earle, Harry, Vancouver, B.C.
Willis, George Christopher, Toronto, Ont.
Underhill, Frederic Clare, Vancouver, B.C.
Carnwath, James, Riverside, N.B.
Dodd, Geoffrey Johnstone, Jamaica, B.W.I.
Whyte, Harold Eustace, Victoria, B.C.
Parker, Stanley Davidson, Ottawa, Ont.
Wilson, Robert Starr Leigh, Lunenberg, N.S.
Wilson, Clifford St. J., St. John, N.B.
De Gruchy, Charles Southwell, Montreal, Que.

Pope, Maurice Arthur, Ottawa, Ont.
Wood, Douglas Fletcher, Westmount, Que.
Nares, Basil Llewellyn, Winnipeg, Man.
Goodeve, Leslie Charles, Ottawa, Ont.
Bennet, George Arthur, New Glasgow, Que.
Bacon, Thomas Hamilton, Montreal, Que.
Boast, Richard Griffith, Richmond, Que.
Cram, Haldane Rodgers, Ottawa, Ont.
Ray, Hugh Percy, Westmount, Que.
Anderson, Alexander Alderson, Ottawa, Ont.
Clark, Raymond Brooke, Jamaica, B.W.I.
Brydone-Jack, Herbert Disbrow, Vancouver, B.C.
Child, Cyril George, Calgary, Alta.
O'Leary, Frederick James, Laggan, Alta.
Johnston, Robin Louis, St. John, N.B.
Hooper, John Harold, North Milton, P.E.I.
Collier, Harold Fetherstonhaugh, Westmount, Que.
Fraser, Harold Alexander, London, Ont.
Walcott, William Hollingsed, Barbados, B.W.I.
Richardson, Creighton Elliott, Montreal, Que.
Watson, Hugh Monroe, Montreal, Que.
Kelly, Albert John, Edmonton, Alta.
Oliver, Stuart Erskine, Quebec, Que.
Planche, Clifford Carlyle, Cookshire, Que.
Wood, James Russell, Peterboro, Ont.

(*Unranked.*)

Anderson, Sedley Cantrell, Halifax, N.S.
Mauer, Eli, Montreal, Que.
Ryan, Frederick George, Montreal, Que.
Thorne, Harvey, Dartmouth, N.S.

IN ELECTRICAL ENGINEERING.

Gregory, Philip Stancliffe, Fredericton, N.B.
Kearney, Graham, Renfrew, Ont.
Scrivener, Robert Massey, Hay, N.S.W., Australia.
Staveley, Walter D., Montreal, Que.
Archibald, Ernest Bryden, Montreal, Que.
Ivey, Charles Herbert, London, Ont.
Alward, Ernest Turnbull, St. John, N.B.
Motyer, Arthur John, Hamilton, Bermuda.
Allen, Alexander D., Wallaceburg, Ont.
Falcke, Joseph, Cape Town, South Africa.
Wilson, Thomas Edgar (B.A.), Langley, B.C.
Dennison, Lawrence George, Westmount, Que.
Murphy, William Herbert, Montreal, Que.
Callander, Delmer Wallace, Guelph, Ont.
Ovalle, Nestor Keith, Babylon, Long Island, N.Y.
Millican, Alonzo Gordon, St. John, N.B.
Irwin, William Eric Cromelin, Ottawa, Ont.
Wood, Harold Whitney, Montreal, Que.
Nares, Hilary George, Winnipeg, Man.
Hudson, George Matheson, Westmount, Que.

*Unranked.*

Alford, John Newton, Belleville, Ont.
Scott, Robert William, Queenstown, Cape Colony, South Africa.
Vinet, Eugene, Montreal, Que.

*Aegrotat Standing.*

Smith, William Plumb, Montreal, Que.

IN MECHANICAL ENGINEERING.

Linagh, Ronald King, Montreal, Que.
Gnaedinger, Cedric Walter, Montreal, Que.
Briercliffe, Henry Carle Dyson, Richland P.O., Man.
Webb, Edward Mitchell, Montreal, Que.

*Unranked.*

Cook, Archibald Stuart, Quebec, Que.
Robertson, Gilbert, Brantford, Ont.

*Aegrotat Standing.*

Hargraft, Stuart Alexander, Winnipeg, Man.

IN METALLURGY.

*Unranked.*

LaForest, Guy B., Montreal, Que.

IN METALLURGICAL ENGINEERING.

Porter, Cecil George, St. John, N.B.

IN MINING ENGINEERING.

Galloway, John Davidson, Grand Forks, B.C.
Murray, George Ernest, Ottawa, Ont.
Eldridge, Gardner Smith, Vancouver, B.C.
Wünsch, Donald Frederick Sandys, Knutsford, England.
Evans, Alfred James Lawrence, Quebec, Que.
Ross, Wallace Gordon, Montreal, Que.
Oughtred, Lawrence William, Marbleton, Que.
Koch, Ernest Christian, Westmount, Que.
Gillies, Clyde Campbell, Toronto, Ont.
Boyd, Gardiner Mossom, Bobcaygeon, Ont.
White, James A. Gordon, Woodstock, Ont.

*Unranked.*

de Hart, Joseph Bertram (B.Sc.), London, England.
Fox, Charles Allen, Coaticook, Que.
Stuart, Alexander Graham, Buckingham, Que.

IN RAILWAY ENGINEERING.

McLeod, Allan Cameron, Montreal, Que.
Kingsley, Edward Robert, Lindsay, Ont.
Smith, Willard Roy, St. John, N.B.

*Unranked.*

Forbes, Duncan Stuart, Montreal, Que.

## THIRD YEAR

### PRIZES.

(In alphabetical order.)

Davis, John Caswell (B.A.)—Prize for General Proficiency (Department of Mechanical Engineering).

DesRosiers, Ivanhoe—Prize for General Proficiency (Department of Architecture).

Futterer, Edward—Drummond Second Prize for Summer Essay (Mining).

Macleod, Donald Keith—British Association Exhibition for Strength of Materials and Mechanics; Prize for General Proficiency (Department of Electrical Engineering).

Norris, J. Hillyard—British Association Prize for Strength of Materials and Mechanics.

Sterns, Russell William—Crosby Steam Gauge Prize for Summer Essay (Department of Mechanical Engineering); Third Prize for Paper read before the Undergraduates' Society of Applied Science.

Tebbutt, Oswold Neville—Prize for General Proficiency (Department of Chemical Engineering).

### PASSED THE SESSIONAL EXAMINATIONS.

IN ARCHITECTURE.

(In order of merit.)

Des Rosiers, Ivanhoe, Ottawa, Ont.
Lockhart, Earle Anthony, Montreal, Que.

*Unranked.*

(In alphabetical order.)

*Barnaby, Hazen Otis, St. John, N.B.
*Campbell, Kenneth Mowatt, Fredericton, N.B.
*King, Edmund Dewitt, Chipman, N.B.
*Richards, Hugh Archibald, Ottawa, Ont.

IN CHEMISTRY.

Shaw, Douglas Archibald, Montreal, Que.

---

*To pass supplemental examinations.

*Unranked.*

(In alphabetical order.)

*Austin, Morris, Montreal, Que.
*Jordan, Ernest Hastings, Goderich, Ont.
*McDougald, Charles William Herdman, Ottawa, Ont.
*Skelton, Ralph, Montreal, Que.

IN CHEMICAL ENGINEERING.

(In order of merit.)

Tebbutt, Oswold Neville, Cambridge, England.
McIntyre, Aimwell Gordon, St. John, N.B.

*Unranked.*

(In alphabetical order.)

*Biddulph, Richard Herbert Howell, Reading, England.
*McLeod, Clement Kirkland, Montreal, Que.

IN CIVIL ENGINEERING.

(In order of merit.)

McEwen, Alan Brettell, Byron, Ont.
DesRosiers, Arthur, Ottawa, Ont.
Calkins, Harold Alson, Montreal, Que.
Henry, Robert Alexander Cecil, Calgary, Alta.
MacKinnon, Duncan Arthur, Vancouver, B.C.
McGannon, Edward Matthew, Brockville, Ont.

*Unranked.*

(In alphabetical order.)

*Armstrong, John Douglas, Ottawa, Ont.
*Bisson, Leonard, Hull, Que.
*Cassels, Wescotte Lewis Lyttleton, Ottawa, Ont.
*Connolley, William John, Jamaica, B.W.I.
*Downes, Michael A., Montreal, Que.
*Edwards, Herbert Laurence, Montreal, Que.
*Fay, Leonard William, Knowlton, Que.
*Forman, Edmund George Hill, Perthshire, Scotland.
*Gear, George, St. John's, Newfoundland.
*Gohier, Joseph Ernest Arthur, St. Laurent, Que.
*Hugh-Jones, Evan Bonnor, Wrexham, North Wales.
*Jelly, Ernest Melville, Carleton Place, Ont.
*Lesage, George William, Montreal, Que.
*MacDermot, Edward C., Jamaica, B.W.I.
*McLellan, Robert Burns, Vancouver, B.C.
*Page, Sidney Maurice, Lockport, N.S.

---

*To pass supplemental examinations.

*Peden, Ernest, Montreal West, Que.
*Robertson, Charles, Brantford, Ont.
*Traversy, Valmore Isidore, Westmount, Que.
*Vallance, Henry Walter, Hamilton, Ont.
*Veilleux, William H., Sherbrooke, Que.
*Whittall, Frederick R., Westmount, Que.

IN ELECTRICAL ENGINEERING.

(In order of merit.)

Macleod, Donald Keith, Parkhill, Ont.
Schippel, Henry Frederick, Montreal, Que.
Steeves, John Trites, Hillsborough, N.B.
Cook, Shirley Seymour, Milton, N.S.
McNiven, John James, New Westminster, B.C.
Ryan, Edward Alphonsus, Westmount, Que.
Hutchins, George R., Montreal, Que.
Cohen, Moise Jacques, Vancouver, B.C.
Blois, Robert Kerr, Halifax, N.S.
Wade, Mark Leighton, Kamloops, B.C.
Kearns, James Alf., Montreal, Que.
Reinhardt, Ernest Adolph, Westmount, Que.

*Unranked.*

(In alphabetical order.)

*Bolan, William M., Montreal, Que.
*Brown, Michael John, Montreal, Que.
*Burr, Arthur Vibert, Toronto, Ont.
*Casey, Joseph Felix, Montreal, Que.
*Cushing, Arthur G., Montreal, Que.
*Darling, Gordon, Graham, Que.
*Dixon, Walter Underwood, Montreal, Que
*Gall, Arthur, Montreal, Que.
*Lynch, James Alsop, Barbados, B.W.I.
*McCammon, John Whyte, Inverness, Que.
*Mather, Richard Henry, Ottawa, Ont.
*Prince, Preston Guy, Montreal, Que.
*Salter, John Norman, Ottawa, Ont.

IN MECHANICAL ENGINEERING.

(In order of merit.)

Davis, John Caswell (B.A.), Montreal, Que.
Sterns, Russell William, Charlottetown, P.E.I.
Duggan, Herrick Stevenson, Montreal, Que.
Norris, J. Hillyard, Westmount, Que.
Hayward, John Gray, Brockville, Ont.
Heward, Francis Stephen Beverley, Montreal, Que.
Robb, James Bruce, Westmount, Que.
Cummer, Robert Lockman, Hamilton, Ont.
Goode, Thomas Gerald, Westmount, Que.
Weber, K. Rudolph, Montreal, Que.
Wheatley, James Howard, Westmount, Que.

---

*To pass supplemental examinations.

*Unranked.*

(In alphabetical order.)

*Bagsha , Frank, Victoria, B.C.
*Barnes, Frank H., Port Hope, Ont.
*Boyd, Thornton Bridgman, Bobcaygeon, Ont.
*Campbell, Colin, Ottawa, Ont.
*Cash, George Southam, Wincanton, Somerset, England.
*Duffield, Colin Munro, London, Ont.
*Garth, Charles Holmes, Rosemere, Que.
*Hughson, John Ward, Albany, N.Y.
*Johnson, Geoffrey Alan, Ottawa, Ont.
*Lefebvre, Eugene, Montreal, Que.
*McRae, Joseph Percy, Ottawa, Ont.
*Rennoldson, David Benedict, Montreal, Que.
*Sargent, Albert Eldridge, Montreal West, Que.
*Scott, Allen Nye, Ottawa, Ont.
*Skelton, Philip H., Montreal, Que.
*Starke, Henry MacDermott, Rochester, N.Y.
*Turnbull, Alan, Hamilton, Ont.
*Warner, John E. A., Kentville, N.S.

IN METALLURGICAL ENGINEERING.

(In order of merit.)

Macleod, Donald L., Summerside, P.E.I.
Randolph, Thomas Granville, Frome, Somerset, England.

*Unranked.*

(In alphabetical order.)

*Gnaedinger, F. Theo., Montreal, Que.
*Hall, Edward Patterson, Quebec, Que.
*McMahon, James Walsh, St. Albans, Vt.

IN METALLURGY.

*Unranked.*

(In alphabetical order.)

*Clarke, John Hamilton, Ottawa, Ont.
*MacKintosh, Ivan Roderick, Montreal, Que.

IN MINING ENGINEERING.

(In order of merit.)

Futterer, Edward, Albany, N.Y.
Boyd, Winnette W., Bobcaygeon, Ont.
Stroud, Wallace Douglas, Montreal, Que

*To pass supplemental examinations.

*Unranked.*

(In alphabetical order.)

*Bell, Donald A. S., Ottawa, Ont.
*Chaffey, Charles Russell, Vancouver, B.C.
*Cooper, Corin Henry Benedict, Frome, England.
*Cumming, Charles Linnaeus, Rugby, England.
*Demers, John Charles Albert, St. Johns, Que.
*Elderkin, Vernon Copland, Parrsboro, N.S.
*Gartshore, William Moir, Hamilton, Ont.
*Gass, Laurence Henderson, Montreal West, Que.
*Gorman, Thomas Clarence, Ottawa, Ont.
*Gougeon, Hugh D., Saskatoon, Sask.
*Hanington, Arthur Edward William, Ottawa, Ont.
*Hasbrouck, Bernard, Nyack-on-Hudson, N.Y.
*Legris, Joseph A., Louisville, Que.
*McDougall, Roderic Joseph, Vankleek Hill, Ont.
*Matheson, Walter, Charlottetown, P.E.I.
*May, William Taylor, Ottawa, Ont.
*Paddon, Hubert Archibald, St. John's, Newfoundland.
*Roy, James Louis, Bedford, N.S.
*Warburton, James Arthur, Charlottetown, P.E.I.
*Wilson, William Bowman, Ottawa, Ont.

IN RAILWAYS.

*Unranked.*

(In alphabetical order.)

*Bolton, Philip Lambert, St. Lambert, Que.
*Pullen, John, Westmount, Que.
*Woodyatt, Charles Frederick Korlum, Brantford, Ont.

## SECOND YEAR

PRIZES.

(In alphabetical order.)

Cassels, Wescotte Lewis Lyttleton—First J. M. McCarthy Fieldwork Prize.

Crewdson, Eric—Third Prize for Mathematics and Mechanics; Second Prize for General Proficiency.

DesRosiers, Arthur—Second J. M. McCarthy Fieldwork Prize.

Dodd, George Saville—First Prize for Mathematics and Mechanics; Third Prize for General Proficiency.

Murphy, Stephen John—Second Prize for Mathematics and Mechanics; First Prize for General Proficiency.

---

*To pass supplemental examinations.

## PASSED THE SESSIONAL EXAMINATIONS.

### IN ARCHITECTURE.

*Unranked.*

(In alphabetical order.)

*Barwick, Oliver Archibald, Montreal, Que.
Dowie, Kenneth William, Lachine, Que.
*McConkey, Benjamin Bertram, Guelph, Ont.
*Nicholson, Ralph Ardrey Valance, Ottawa, Ont.
*Ouimet, Rene, Montreal, Que.
*Reid, James W., Riverside, N.B.

### IN CHEMISTRY.

*Unranked.*

*Dougall, J. Brereton, Montreal, Que.

### OTHER COURSES.

(In order of merit.)

Murphy, Stephen John, Montreal, Que.
Crewdson, Eric, Milnethorpe, England.
Dodd, George Saville, Jamaica, B.W.I.
Reeder, Kenneth Abraham, Saskatoon, Sask.
MacRae, William Alexander, Montreal, Que.
Joseph, Kenneth de Sola, Quebec, Que.
Mais, Herbert R., Jamaica, B.W.I.
Baily, Philip Pendlebury, London, England.
Wright, Walter Genge, London, Ont.
Crossfield, John Townley Knowles, Monmouth, England. } equal.
Eaton, Herbert Vincent, Montreal, Que.
Lindsay, Charles Crawford, Quebec, Que.
Mitchell, William Gordon, Port Hope, Ont.
Burrow, Horace Lovell, Hamilton, Ont.
Tait, Irving Richard, Montreal, Que.
Harvey, Ernest R., Lyndhurst, Ont.
Lyster, Horace Muir, Kirkdale, Que.
Learned, Frank Beattie, Learned Plain, Que.
Baker, Massy, Tipperary, Ireland.
Morrow, Thomas Maclellan, St. John, N.B.
McEvenue, St. Clair, Kenley, England.
Rogers, Henry George, Peterboro, Ont.

*Unranked.*

(In alphabetical order.)

*Adam, Rene, Quebec, Que.
*Alexander, Edgar Douglas, Westmount, Que.
*Anderson, John Rogerson, Halifax, N.S.
*Baridon, Frederick William, Westmount, Que.

---

*To pass supplemental examinations.

*Bell, William Edward, Montreal, Que.
*Berry, Robert Crapper, Montreal, Que.
*Bignell, Hilary V., Montreal, Que.
*Billington, Edward Eric, West Kirby, England.
*Blair, Donald, Montreal, Que.
*Boire, Joseph Jules, Quebec, Que.
*Brisbane, John Sutherland, Westmount, Que.
*Cameron, Alan Emerson, Ottawa, Ont.
*Chambers, Hugh Dapford, New Glasgow, N.S.
*Clawson, Frederick Arthur, St. John, N.B.
*Cole, Harold Franklin, Ottawa, Ont.
*Cooke, Arthur Douglas, Westmount, Que.
*Creaghan, T. Cyril, Newcastle, N.B.
*Cunningham, Stanley Hunter, Montreal, Que.
*Davidson, Carl Goodwill, Montreal, Que.
*Davidson, William Joseph, Montreal, Que.
*Davies, James Frederick Blair, Hull, Que.
*Delgado, Percy George, Jamaica, B.W.I.
*Dempster, Reginald Charles, Rossland, B.C.
*Donald, James Richardson, Montreal, Que.
*Drummond, Kevin Stewart, Midland, Ont.
*Eardley-Wilmot, Trevor, Perth, Ont.
*Egerton, Rowland Philip, Wrexham, North Wales.
*Eliasoph, Joseph Elijah, Quebec, Que.
*Fitzgerald, Edward, Peterboro, Ont.
*Galloway, Charles Campbell, Grand Forks, B.C.
*Gilchrist, George Hagar, Ottawa, Ont.
*Goodwin, William Carlyle, Westmount, Que.
*Graham, Ewen John, Moyie, B.C.
*Hamer, Thurston Moseley, Mexico City, Mexico.
*Hample, Carl Samuel, Winnipeg, Man.
*Hanley, Alphonsus E., Montreal, Que.
*Hebden, John Brereton, Montreal, Que.
*Hooper, Benjamin Reagh, Charlottetown, P.E.I.
*Hull, Harold L., Pretoria, South Africa.
*Hutchinson, Samuel Arthur (B.A.), Montreal, Que.
*Jackson, Frederick Stanbridge, Nelspoort, South Africa.
*Kavanagh, Walter Joseph, Montreal, Que.
*Kirby, Thomas H., Winnipeg, Man.
*Kirkpatrick, Robert Alonzo, Ferguson, B.C.
*LaForest, John Maurice, Montreal, Que.
*Lapp, Frank Wilbert, Cobourg, Ont.
*Lauder, Lester E., Montreal, Que.
*Lawrence, William Harold, Watford, Ont.
*Leach, William Lindsay, Montreal, Que.
*Legris, Charles Ernest, Arctic, R.I.
*Ludington, William Horace, Montreal, Que.
*Lynch, T. Leo, Fredericton, N.B.
*McBeath, Roy S., Marshfield, P.E.I.
*McCaghey, Norman F., Quebec, Que.
*McCuaig, Clarence Norman, Montreal, Que.
*McDonald, Louis M. (B.A.), St. John, N.B.
*Macdonald, Norman Macleod, Sutton, Que.
*Mabon, J. Bertram, Montreal, Que.
*Martin, John Lawrence Tassie, Montreal, Que.

---

*To pass supplemental examinations.

*Masson, William Gray, Ottawa, Ont.
*Mathewson, Samuel James, Montreal, Que.
*Moseley, Frank Alexander, Montreal, Que.
*Murray, Charles Ivan, Brockville, Ont.
*Nichols, Laurence Howard, Montreal, Que.
*O'Donnell, John Gerrard, Quebec, Que.
*Paterson, Harold Sutton, Ottawa, Ont.
*Pitts, Andrew A., Montreal, Que.
*Price, Henry Bertram, Montmorency Falls, Que.
Pullen, John, Westmount, Que.
*Roche, Ivor, Westmount, Que.
*Routledge, Henri Oscar, Swanage, England.
*Roy, L. Philippe, Quebec, Que.
*Skeete, Arthur Torrance, Barbados, B.W.I.
*Suckling, Gerald Arthur, Montreal, Que.
*Taylor, George Melville, Ottawa, Ont.
*Tett, Harold Benjamin, Bedford Mills, Ont.
*Thompson, Geoffrey, Weybridge, Surrey, England.
*Thompson, George Harry, Oxford, N.S.
*Tothill, Geoffrey Charles, Bungay, Suffolk, England.
*Warwick, George William, Brockville, Ont.
*Webb, Charles Harry, London, England.
*Wilson, Calvin P., Huntly, Ont.
*Wilson, William James, Ottawa, Ont.

## FIRST YEAR

### PRIZES.

(In alphabetical order.)

Garrett, Eric Hanover—First Fleet Shopwork Prize.
Jamieson, Robert Edwards—First Prize for Mathematics, Descriptive Geometry and Physics; First Prize for General Proficiency.
MacLeod, Hector John—Second Prize for Mathematics, Descriptive Geometry and Physics; Second Fleet Shopwork Prize; Second Prize for General Proficiency.
Robertson, James—Scott Exhibition for Mathematics, Descriptive Geometry and Physics; Third Prize for General Proficiency-

### PASSED THE SESSIONAL EXAMINATIONS.

(In order of merit.)

IN ARCHITECTURE.

Anglin, William A. T., St. John, N.B.
Darbyson, Allen B., Montreal, Que.
Wilkes, Francis Hilton, Brantford, Ont.
Hyde, Walter C., Montreal, Que.
Twitchell, Ralph S., Mansfield, Ohio.

*Unranked.*

(In alphabetical order.)

Dowie, Kenneth William, Lachine, Que.
*Fenster, Moses, Montreal, Que.
*Harrison, Austen St. Barbe, Kent, England.

---

*To pass supplemental examinations.

*Leppo, Howard D., Mansfield, Ohio.
*McLennan, William Durie, Montreal, Que.
*Malhiot, Maurice E., Calgary, Alta.
*Panet-Raymond, Bernard, Montreal, Que.
*Sproule, Stanley Macquana, Montreal, Que.

OTHER COURSES.

(In order of merit.)

Jamieson, Robert Edwards, Ottawa, Ont.
MacLeod, Hector John, High River, Alta.
Robertson, James, Lachine Locks, Que.
Laing, Norman Beattie, Essex, Ont.
Stanley, Harold Poole, Charlottetown, P.E.I.
Scott, William Douglas, Oxford, England.
Garrett, Eric Hanover, Jamaica, B.W.I.
Scott, Alexander Gordon, Montreal, Que.
Keeping, Kimball F., Murray Harbour, P.E.I.
Hay, Alan Keith, Ottawa, Ont.
Coote, James A., Oakville, Ont.
Hadley, Daniel James, Montreal, Que. } equal.
Strathy, Ralph Lee Alexander, Montreal, Que. }
Bone, John Turner, Calgary, Alta.
Day, Joseph Charles, Montreal, Que.
Garrow, Edwin Esslemont, Montreal, Que.
McFarlane, Blair Athol, Hamilton, Ont.
Winter, Bassell Francis, St. John, N.B.
Cunningham, Andrew Irwin, Westmount, Que.
Gilbert, Philip Geoffrey Britton, Toronto, Ont.
Holland, Henry, Leamington, England.
Creasor, John Alfred, Owen Sound, Ont.
Pitts, Clarence MacLeod, Ottawa, Ont.
Marshall, Melville Johnston, McAdam Junction, N.B.
Fricker, Cecil Oscar, London, England.
Boswell, Maxfield Lea, Victoria, P.E.I. }
Gentles, Allan S., Westmount, Que. } equal.
Harkom, John Frederick, Melbourne, Que. }
Goodman, Flavius Ivo Cobbett, Barbados, B.W.I.
Bailey, Whitham Taylor, Westmount, Que.
Tyler, William Grant, Montreal West, Que.
Jerry, Hubert W., Plattsburgh, N.Y.
Hall, John, Cornwall, Ont.
Ross, Bruce, Ottawa, Ont.
Ewart, Keith Penicuik, Ottawa, Ont.
Draper, George Collier, Montreal, Que.
Osler, Ralph Tetherstone Lake, Summerland, B.C.
Waldron, Clifford Raymond, East Clifton, Que.
Stavert, Ewart, Montreal, Que.
Gilmore, Arthur J., Derby Line, Vermont. } equal.
Grant, William Roy, New Glasgow, N.S. }
Traversy, Eric Elsdale, Montreal, Que.
Duggan, Kenneth L., Montreal, Que.
Lawrence, Alfred John, Outremont, Que.
Kennedy, Howard, Dunrobin, Ont.

*To pass supplemental examinations.

Page, John Albert, Brockville, Ont.
Kingston, Kenneth Jennings, Ottawa, Ont.
Notman, Keith C., Montreal, Que.
Milne, Arthur H., Montreal West, Que.
Hyams, Samuel, Montreal, Que.
Allingham, R. Ralph, Woodstock, N.B. } equal.
Stewart, George Lawrence, Winnipeg, Man. }
Ryley, Edmund Gerald, Montreal, Que.
Garden, Herbert Mackie Gordon, Montreal, Que.
Cox, Griffith Vaughan, Jamaica, B.W.I.
Thom, James Balfour, Montreal, Que.
McLennan, Robert Purves, Vancouver, B.C.
Scott, Norman Mackie, Ottawa, Ont.

*Unranked.*

(In alphabetical order.)

*Bacque, Frederic Harold, Westmount, Que.
Bauset, L. R. Jules, Montreal, Que.
*Berrill, Frederick Charles, Kettering, England.
*Booker, Harvey D., Kenora, Ont.
*Botero, Baltasar, Columbia, South America.
*Brophy, George Patrick, Ottawa, Ont.
*Brown, Thomas Allsop, Victoria, B.C.
*Bull, Wilford Edward, Winnipeg, Man.
*Calder, Charles Douglas, Westmount, Que.
*Cardinal, Emile, Montreal, Que.
*Carreau, Louis H., St. John's, Que.
*Chalifour, Simon Joseph, Ottawa, Ont.
*Chalifoux, Lionel, Ste. Hyacinthe, Que.
*Charleson, Donald Richard, Vancouver, B.C.
*Coke, Reginald Norman, Jamaica, B.W.I.
*Coleman, Milton Thomas, Westmount, Que.
*Connors, Frederick Patrick, Montreal, Que.
*Copland, Andrew Eric, Westmount, Que.
*Coulson, Robert Berry McAllan, Montreal, Que.
*Cronk, Francis Joseph, Montreal, Que.
*Dalton, Noel Roy, New York City, U.S.A.
*Darling, George Kenneth, Montreal, Que.
*Davidson, Gerald Hanson, Ottawa, Ont.
*Davignon, Cyrille E., Knowlton, Que.
*Dawson, Francis Gilmer Tempest, Montreal, Que.
*Dempster, Arthur L., Rossland, B.C.
*Dixon, Archibald Hamilton, Hamilton, Ont.
*Doyle, Samuel T., Montreal, Que.
*Ekers, Archer, Montreal, Que.
*Forman, John F., Montreal, Que.
*Fowler, Walter Douglas, Westmount, Que.
*Gass, Ronald Wright, Montreal, Que.
*Guignard, Ernest Augustus, Brassus, Switzerland.
*Hague, Kennington Henry Scott, Montreal, Que.
*Hall, John Smythe, Montreal, Que.
*Harding, C. Howard, Westmount, Que.

---

*To pass supplemental examinations.

*Harris, Parker Baptiste, Gore's Landing, Ont.
*Henry, Thomas Haliburton, Westmount, Que.
*Ingersoll, John Nelson, Ottawa, Ont.
*Kennedy, Harold Samuel, Ottawa, Ont.
*LaMontagne, John M., Florida, U.S.A.
*Layne, Geoffrey F., Barbados, B.W.I.
*Lionais, Edward, Montreal, Que.
*Loudon, Ernest Warren, Westmount, Que.
*McDougall, James, Morenci, Arizona.
*MacFadyen, Kenneth Alexander, Tignish, P.E.I.
*MacLaurin, Douglas Cameron, Vankleek Hill, Ont.
*McLean, John Reginald, Morenci, Arizona.
*McMeekin, Ernest J., Stonefield, Que.
*McNicoll, David, Westmount, Que.
*Millar, Burton, Peterboro, Ont.
*Mitchell, Leslie Stuart, Montreal, Que.
*Monat, Charles O., Montreal, Que.
*Morgan, Niel Lyman, Montreal, Que.
*Morris, Frederick Jarvis, St. Regis Falls, N.Y.
*Morton, George Percival, Hamilton, Ont.
*Mullin, James W., Barb, Ont.
*Orkin, Edward, Westmount, Que.
*Paisley, James Ernest Harris, Ottawa, Ont.
*Parkins, Frank Albert, Montreal, Que.
*Patterson, Alexander Ernest, Longueuil, Que.
*Patterson, Arthur Logie, Montreal, Que.
*Pearson, Charles Chisholm, Buckingham, Que.
*Peck, Brian A., Montreal, Que.
*Perrault, John Julian, Montreal, Que.
Pickel, Follin Eric, Sweetsburg, Que.
*Pontbriand, Georges Etienne, Sorel, Que.
*Powter, Arthur Lawrence, Westmount, Que.
*Pulford, Fred Meikle, Winnipeg, Man.
*Ribadeneyra, Antonio, Ecuador, South America.
*Ross, George William, Westmount, Que.
*Ryan, John Augustine, Montreal, Que.
*Sandison, William Ross, Winnipeg, Man.
*Scantlebury, Reginald Avery, Vankleek Hill, Ont.
*Schneider, George N., Montreal, Que.
*Sherlock, Robert Hamilton, Lethbridge, Alta.
*Smith, Lewis Ewing, Mystic, Que.
*Sullivan, Jeremiah Joseph, Valleyfield, Que.
*Summerskill, John Henry, Montreal, Que.
*Taylor, William Harold, Winnipeg, Man.
*Taylor, Walker Lewis, Edmonton, Alta.
*Todd, Martin Milne, Galt, Ont.
*Tracy, Thomas Leonard, Vancouver, B.C.
*Troop, Philip Frederick Roy, Montreal, Que.
*Walbank, W. McLea, Montreal, Que.
*Wall, A. Fraser, Montreal, Que.
*Wall, William Clarence, Montreal, Que.
*Werry, Royal E., Montreal, Que.
*Williamson, Alexander David, Montreal, Que.
*Young, Richard Thomas, Ottawa, Ont.

---

*To pass supplemental examinations.

## STANDING IN THE SEVERAL SUBJECTS.

### (1) *STUDENTS IN ARCHITECTURE.*

#### ARCHITECTURAL DESIGN.

*Fourth Year.*—*Class I.*—MacDonald (G. H.). *Class II.*—Peck, Richardson (A. I.). *Class III.*—None.

*Third Year.*—*Class I.*—Richards. *Class II.*—Campbell (K. M.) and DesRosiers (I.), equal; King; Dowie and Lockhart and Sproule, equal. *Class III.*—Barnaby.

*Second Year.*—*Class I.*—None. *Class II.*—Nicholson; McConkey and Twitchell, equal; Barwick and Ouimet, equal. *Class III.*—McLennan (W. D.).

#### ARCHITECTURAL DRAWING.

*Fourth Year.*—*Class I.*—None. *Class II.*—Peck, MacDonald (G. H.), Richardson (A. I.). *Class III.*—Little, Hawkins.

*Third Year.*—*Class I.*—Dowie; Campbell (K. M.) and King, equal. *Class II.*—DesRosiers (I.); Lockhart and Richards, equal; Barnaby. *Class III.*—None.

*Second Year.*—*Class I.*—None. *Class II.*—Ouimet, McConkey. *Class III.*—Nicholson.

*First Year.*—*Class I.*—Darbyson, Anglin. *Class II.*—Fenster and Hyde, equal; Twitchell. *Class III.*—Wilkes, Leppo, Harrison, McLennan (W. D.).

#### ARCHITECTURAL PRACTICE.

*Fourth Year.*—*Class I.*—MacDonald (G. H.), Little. *Class II.*—Hawkins, Richardson (A. I.). *Class III.*—Peck.

#### BUILDING CONSTRUCTION.

*Second Year.*—*Class I.*—None. *Class II.*—Sproule. *Class III.*—McConkey, Reid, Nicholson.

#### DESCRIPTIVE GEOMETRY.

*Third Year.*—*Class I.*—None. *Class II.*—DesRosiers (I.), Richards. *Class III.*—King, Lockhart.

#### ELEMENTS OF ARCHITECTURE.

*Second Year.*—*Class I.*—Sproule; Barwick and Harrison, equal. *Class II.*—McLennan (W. D.), Reid. *Class III.*—McConkey, Ouimet, Nicholson, Malhiot.

#### ESSAY.

*Fourth Year.*—*Class I.*—None. *Class II.*—Hawkins and MacDonald (G. H.), equal; Peck; Little and Richardson (A. I.), equal. *Class III.*—None.

*Third Year.*—*Class I.*—DesRosiers (I.), King, Campbell. *Class II.*—Lockhart, Richards. *Class III.*—Barnaby.

*Second Year.*—*Class I.*—None. *Class II.*—McConkey, Nicholson, Barwick. *Class III.*—None.

FREEHAND DRAWING.

*First Year.*—*Class I.*—Sproule; Harrison and Twitchell, equal. *Class II.*—Dowie and Hyde, equal; Darbyson, Wilkes, Anglin, Leppo, Fenster, Panet-Raymond. *Class III.*—McLennan (W. D.), Malhiot.

FRENCH.

*First Year.*—*Class I.*—None. *Class II.*—Anglin, Dowie. *Class III.*—Darbyson, Hyde, Fenster, Wilkes.

GRAPHICAL STATICS.

*Fourth Year.*—*Class I.*—MacDonald (G. H.). *Class II.*—Richardson (A. I.), Hawkins. *Class III.*—Peck.

HISTORY.

*Second Year.*—*Class I.*—Nicholson. *Class II.*—Ouimet. *Class III.*—Barwick and McConkey, equal.

*First Year.*—*Class I.*—Harrison, Anglin. *Class II.*—Sproule; Darbyson and Dowie and McLennan (W. D.), equal; Wilkes. *Class III.*—Fenster, Hyde.

HISTORY OF ARCHITECTURE.

*Fourth Year.*—*Class I.*—None. *Class II.*—Richardson (A. I.), MacDonald (G. H.). *Class III.*—Hawkins, Little, Peck.

*Third Year.*—*Class I.*—None. *Class II.*—King; Campbell (K. M.) and DesRosiers (I.), equal; Sproule, Dowie, Richards. *Class III.*—Lockhart.

*Second Year.*—*Class I.*—None. *Class II.*—Sproule, Harrison, Twitchell, Nicholson, Barwick. *Class III.*—Leppo and McConkey, equal; Malhiot.

HYGIENE OF BUILDINGS.

*Third Year.*—*Class I.*—Campbell (K. M.). *Class II.*—Barnaby, DesRosiers (I.), King, Lockhart, Richards. *Class III.*—None.

MATHEMATICS.

*Second Year.*—*Class I.*—None. *Class II.*—None. *Class III.*—Barwick.

*First Year.*—*Class I.*—Anglin. *Class II.*—Darbyson, Wilkes, McLennan (W.D.). *Class III.*—None.

MODELLING.

*Fourth Year.*—*Class I.*—MacDonald (G. H.), Richardson (A. I.). *Class II.*—Hawkins, Peck. *Class III.*—None.

*Third Year.*—*Class I.*—DesRosiers (I.); King and Lockhart, equal; Barnaby and Campbell (K. M.), equal. *Class II.*—None. *Class III.*—None.

*Second Year.*—*Class I.*—Sproule, Ouimet. *Class II.*—Barwick and McConkey and Nicholson, equal.

*First Year.*—*Class I.*—Anglin and Hyde and Sproule, equal; Darbyson. *Class II.*—Fenster and Leppo and McLennan (W. D.) and Panet-Raymond and Twitchell and Wilkes, equal. *Class III.*—None.

MODERN ARCHITECTURE.

*Fourth Year.—Class I.*—Richardson (A. I.), Hawkins. *Class II.*—MacDonald (G. H.) and Peck, equal. *Class III.*—Little.

ORNAMENT AND DECORATION.

*Third and Second Years.—Class I.*—Dowie and Sproule, equal. *Class II.*—DesRosiers (I.) and King, equal; Campbell (K. M.) and Harrison and Lockhart, equal; Malhiot. *Class III.*—Nicholson; Barwick and Richards, equal; McConkey, Reid, Barnaby.

PHYSICS.

*First Year.—Class I.*—Anglin, Darbyson. *Class II.*—Twitchell, Wilkes. *Class III.*—Leppo, Hyde, Fenster, McLennan (W. D.).

PHYSICAL LABORATORY.

*First Year.—Class I.*—Anglin, Darbyson, Twitchell, Leppo. *Class II.*—Hyde, Wilkes, Fenster, McLennan (W. D.). *Class III.*—None.

STRUCTURAL DESIGN.

*Fourth Year.—Class I.*—MacDonald (G. H.). *Class II.*—Peck. *Class III.*—Hawkins and Richardson (A. I.), equal.

STRUCTURAL ENGINEERING.

*Third Year.—Class I.*—King. *Class II.*—Lockhart, Richards, Des Rosiers (I.). *Class III.*—Campbell (K. M.), Barnaby.

STRUCTURAL ENGINEERING DETAIL.

*Third Year.—Class I.*—King. *Class II.*—Lockhart, Richards, Des-Rosiers (I.), Campbell (K. M.). *Class III.*—None.

THEORY OF DESIGN.

*Third Year.—Class I.*—DesRosiers (I.), King. *Class II.*—Campbell (K. M.) and Lockhart,equal; Richards, Barnaby. *Class III.*—None.

THEORY OF PLANNING.

*Fourth Year.—Class I.*—Richardson (A. I.), Hawkins. *Class II.*—MacDonald (G. H.) and Peck, equal. *Class III.*—Little.

## (2) *STUDENTS IN OTHER COURSES.*

ACCOUNTING.

*Fourth Year.—Class I.*—McLeod. *Class II.*—Kingsley, Forbes, Smith (W. R.). *Class III.*—Bolton.

A.C. AND A.C. MACHINERY.

*Fourth Year.—Class I.*—Gregory, Kearney, Scrivener, Motyer, Archibald, Alward. *Class II.*—Ivey, Allen, Murphy, Ovalle; Dennison and Irwin, equal; Falcke; Millican and Staveley, equal. *Class III.*—Hollinsed and Wilson (T. E.), equal; Davis; Nares (H. G.) and Scott (R. W.), equal; Callander, Wood (H. W.), Ross (A. C.).

APPLIED ELECTRO-CHEMISTRY AND LABORATORY.

*Fourth Year.—Class I.*—Gregory; Ivey and Walker, equal; Staveley. *Class II.*—Boyd (L. C.), Irwin; Alward and Callander, equal; Hudson, Macaulay, Murphy. *Class III.*—LaForest.

ASSAYING (PART I.)

*Third Year.—Class I.*—None. *Class II.*—McMahon, Macaulay, Gass; Billington and May, equal; Hall; Bell and Finnie, equal; Boyd (W. W.) and Cumming and Hanington and Randolph, equal; Stroud; Clawson and McLeod (D. L.), equal; de Hart; Futterer and Roy, equal; Gnaedinger and Wilson, equal; Gorman, Chaffey, Mackintosh, Elderkin, Legris (J. A.); Clarke and Cooper and McDougall (R. J.), equal.

BRIDGE DESIGN.

*Fourth Year.—Class I.*—Macdonald (J. J.), Earle, Willis (G. C.), Underhill. *Class II.*—Pope, Wilson (R.S.L.); Bennet and Hooper, equal; de Gruchy and Parker, equal; Cram and Dodd, equal; Wood (D. F.); Bacon and Fraser and Goodeve and Walcott, equal; Child and Wilson (C. St. J.), equal; Elliott; Carnwath and Nares (B. L.) and Ray, equal; Anderson (A. A.) and Boast and Young, equal; Watson, Kelly, Whyte (H. E.). *Class III.*—Clark; Brydone-Jack and Duguid and Johnston, equal; Collier and Oliver and Thompson, equal; O'Leary and Planche, equal; Wood (J. R.), Richardson (C.E.), Lumsden.

CHEMISTRY (INDUSTRIAL).

*Fourth Year.—Class I.*—Boyd (L. C.). *Class II.*—Macaulay, Walker, LaForest. *Class III.*—Porter.

CHEMISTRY (INORGANIC QUALITATIVE ANALYSIS).

*Third Year.—Class I.*—None. *Class II.*—Futterer, Gougeon, Chaffey; Elderkin and Gass, equal; Legris (J. A.) and Stroud, equal. *Class III.*—Boyd (W. W.), Cooper, Wilson; Gorman and Hanington, equal; May, Roy, Routledge; Lynch (T. L.) and McDougall, equal.

CHEMISTRY (INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY).

*Fourth Year.—Class I.*—Walker, Macaulay. *Class II.*—None. *Class III.*—None.

CHEMISTRY (INORGANIC QUANTITATIVE ANALYSIS).

*Third Year.—Class I.*—Hyman, McLeod (D. L.). *Class II.*—Tebbutt, Shaw. *Class III.*—McIntyre, Austin, Randolph, Clarke, Skelton (R.), Jordan; Hall and Mackintosh, equal; McMahon, Gnaedinger.

CHEMISTRY (ORGANIC).

*Fourth Year.—Class I.*—Boyd (L. C.), Macaulay. *Class II.*—None. *Class III.*—None.

*Third Year.—Class I.*—Tebbutt. *Class II.*—Hyman, McIntyre. *Class III.*—Shaw, Jordan, Biddulph, Skelton (R.).

CHEMISTRY (ORGANIC) AND LABORATORY.

*Fourth Year.—Class I.*—Boyd (L. C.). *Class II.*—None. *Class III.*—None.

CHEMISTRY (PHYSICAL) AND LABORATORY.

*Fourth Year.—Class I.*—Macaulay and Walker, equal; Boyd (L. C.) *Class II.*—None. *Class III.*—None.

CHEMISTRY (PHYSICAL).

*Third Year.—Class I.*—Tebbutt. *Class II.*—Shaw, Austin, Jordan, Biddulph, McIntyre, Skelton (R.). *Class III.*—Mackintosh, Clarke, McDougald; Galloway (C. C.) and McLeod (C. K.), equal.

CHEMISTRY.

*Second Year.—Class I.*—Murphy, Crewdson. *Class II.*—Baily and Joseph, equal; MacRae, Dodd, Reeder, Wright, Mais; Burrow and Hooper and Mitchell (W. G.), equal; Davidson (W. J.); Jackson and Kavanagh and Tait, equal; Eaton; Crossfield and Eliasoph and Lindsay, equal. *Class III.*—Chambers and Tothill, equal; Harvey, Kirkpatrick, Morrow, Baker; Baridon and Cameron and Eardley-Wilmot, equal; Goodwin and Kirby and Lawrence and Mitchell (L. S.) and Suckling, equal; Learned and Lyster and Murray and Pitts, equal; Boire, Mathewson; Bignell and Cooke and Delgado and Fitzgerald and McDonald (L. M.) and McEvenue and Rogers, equal; Davies; Taylor and Wilson (C. P.) and Wilson (W. J.), equal; Dougall and Skeete, equal; Brisbane and Dempster and Leach, equal; Adam and Hample, equal; Tett; Cole and Egerton and Gilchrist and Hebden, equal; Martin; Berry and McBeath and Paterson and Thompson, equal.

COLLOQUIUM.

*Fourth Year (Metallurgy Course).—Class I.*—Porter. *Class II.*—LaForest. *Class III.*—None.

*Fourth Year (Mining Course).—Class I.*—de Hart, Wünsch, Galloway. *Class II.*—Murray, Oughtred, Eldridge; Evans and White (J. A. G.), equal; Boyd (G. M.) and Stevenson, equal; Ross (G.), Gillies. *Class III.*—Koch and Porter, equal; Willis (F. S.); Fortier and Holland, equal.

*Third Year (Metallurgy Course).—Class I.*—Clarke. *Class II.*—Mackintosh. *Class III.*—Galloway (C. C.).

C. C. MACHINERY.

*Third Year.—Class I.*—Macleod (D. K.), Steeves, Blois, Wade. *Class II.*—Schippel, Ryan, Cohen; Cook and Hutchins, equal; Kearns and Reinhardt, equal. *Class III.*—Casey, McCammon, McNiven, Mather, MacKay, Hollinsed; Darling and Prince, equal; Burr.

CRYSTALLOGRAPHY.

*Fourth Year.*—*Class I.*—None. *Class II.*—Macaulay. *Class III.*—None .

DESCRIPTIVE GEOMETRY.

*Third Year.*—*Class I.*—None. *Class II.*—Calkins and McGannon, equal; DesRosiers (A.) and McEwen, equal; Peden; McLellan and Robertson, equal; Morkill. *Class III.*—Traversy, McKinnon, Hugh-Jones, Armstrong, Henry, Lesage.

*First Year.*—*Class I.*—MacLeod; Hadley and McFarlane and Robertson and Scott (A. G.), equal; Gentles and Jamieson, equal; McNaughton; Anglin and Cunningham and Stanley, equal; Coote and Garrow and Hay and Laing, equal; Bone; Darbyson and Harkom, equal; Day and Strathy, equal; Gilmore, Morgan, Goodman; Garrett and Harding, equal; Traversy; Henderson and Perrault, equal; Carreau and Tracy, equal; Bailey and Orkin and Scott (W. D.) and Stavert and Winter, equal. *Class II.*—Draper and Holland and Jerry and Keeping and McNicholl and Marshall, equal; Creasor and Hague and Page, equal; Hughes and Pickel, equal; Pitts; Grant and McDougall and Osler, equal; Mellish and Taylor (E. A.) and Williamson ,equal; McLennan (W. D.); Boswell and Ingersoll, equal; Ingram and Jackson and Muddell and Wilkes, equal; Hall (J. G.); Brophy and Connors and Twitchell, equal; Ewart and Garden and Kingston and Troop, equal; Duggan and Gilbert and Ryley, equal; Flitton; Fricker and Ross (B.) and Tyler and Waldron, equal; Berrill and Kennedy (H. S.) and McMeekin, equal. *Class III.*—Hall (J. S.); Coulson and Earle and Fowler, equal; Notman and Stewart (G. L.) and Whyte, equal; Hyams, Sandison; Dempster and Forman and Hyde and Milne and Powter, equal; Patterson (A. E.) and Thom, equal; Loudon and Werry, equal; Lawrence; Calder and Sherlock, equal; Cronk and Leppo, equal; Allingham and Bell-Irving and Booker and Fullerton and Henry and Kennedy (H.), equal; Bull and Coleman and Ribadeneyra, equal; Charleson and Coke and Davidson and LaMontagne and Scott (N. M.), equal; Fenster and Layne, equal; Scott (J.); Barlow and Chalifour and Chalifoux and Cox and Dixon and Harris and Mullin, equal. Passed—Kitchener.

DESIGNING.

*Fourth Year* (*Electrical Engineering Course*).—*Class I.*—Staveley, Scrivener; Gregory and Kearney, equal; Allen and Motyer, equal. *Class II.*—Archibald, Alward; Callander and Millican, equal; Ivey; Falcke and Philips, equal; Wilson (T. E.), Murphy; Ovalle and Wood (H. W.), equal. *Class III.*—Irwin and Nares (H. G.), equal; Dennison, Pengelley, Hudson, Davis, Mackay.

*Fourth Year* (*Mechanical Engineering Course*).—*Class I.*—Briercliffe, Linagh. *Class II.*—Gnaedinger, Brotherhood. *Class III.*—Hargraft, Webb, Cook.

ECONOMICS.

*Third Year.*—*Class I.*—Forman. *Class II.*—None. *Class III.*—Bolton.

ELECTRIC LIGHT AND POWER DISTRIBUTION.

*Fourth Year.—Class I.*—Gregory, Smith (W. P.), Kearney, Ivey. *Class II.*—Alward, Falcke; Irwin and Scrivener, equal; Archibald, Allen, Nares (H. G.), Motyer, Staveley, Ovalle, Wood (H. W.). *Class III.*—Ross (A. C.), Dennison, Wilson (T. E.), Scott (R. W.), Murphy, Millican, Callander, Hudson, Davis.

ELECTRIC RAILWAYS.

*Fourth Year (Civil Engineering and Railways Courses).—Class I.*—Ray, Delepine, Macdonald (J. J.); Carnwath and Dodd, equal; Walcott, Earle; Willis (G. C.) and Wilson (C. St. J.), equal. *Class II.*—Pope and Wilson (R. S. L.) and Wood (D. F.), equal; Anderson (A. A.) and Bacon and McLeod and Underhill, equal; Nares (B. L.); Kingsley and O'Leary and Parker, equal; Whyte (H. E.), Johnston, Fraser; Cram and de Gruchy, equal; Young, Richardson (C. E.), Child; Goodeve and Hooper, equal. *Class III.*—Clark, Kelly, Wood (J. R.); Brydone-Jack and Elliott and Watson, equal; Bennet, Collier; Forman and Lumsden, equal; Boast, Thompson; Christie and Planche and Smith (W. R.), equal.

ELECTRIC TRACTION.

*Fourth Year.—Class I.*—Gregory. *Class II.*—Wilson (T. E.), Kearney; Scrivener and Nares (H. G.), equal; Staveley, Motyer, Ivey. *Class III.*—Dennison; Falcke and Irwin, equal;Allen,Alward; Hudson and Murphy and Ovalle, equal; Archibald and Callander and MacKay and Millican and Wood (H. W.), equal.

ELECTRICAL MEASUREMENTS.

*Third Year.—Class I.*—Macleod (D. K.), Blois, Schippel. *Class II.*—Hutchins and McNiven, equal; Steeves, Thompson; Cook and Mackay, equal; Cohen, Casey. *Class III.*—Burr, Wade, Ryan, Mather; Brown and Kearns and McCammon, equal; Prince, Reinhardt, Cushing.

ELECTRO-CHEMISTRY.

*Fourth Year.—Class I.*—Gregory; Ivey and Walker, equal; Staveley. *Class II.*—Boyd (L. C.), Irwin; Alward and Callander, equal; Hudson, Macaulay, Murphy. *Class III.*—LaForest.

ELECTRO-METALLURGY AND LABORATORY.

*Fourth Year.—Class I.*—Gregory, Walker. *Class II.*—Staveley, Porter, Boyd (L. C.), Callander, Murphy. *Class III.*—Alward and Irwin, equal; LaForest, Hudson.

ELEMENTS OF ELECTRICAL ENGINEERING.

*Fourth Year (Chemical Engineering, Civil, Metallurgy, Mining and Railways Courses).—Class I.*—Earle, Wünsch, Macdonald (J. J.), Walker, Willis (G. C.); Carnwath and McLeod and Murray and Underhill, equal; Eldridge; Koch and Richardson (C. E.) and Ross (G.) and Whyte (H. E.), equal. *Class II.*—Galloway ; Goodeve and O'Leary, equal; Evans and Parker, equal; Boyd

(L. C.) and Collier, equal; Child and Pope, equal; de Gruchy and Oughtred, equal; Nares (B. L.), Dodd; Fox and Gillies, equal; Bacon and Boyd (G. M.) and Watson and Wilson (R. S. L.), equal; Bennet and Brydone-Jack and Kingsley, equal; Boast and Kelly and Wilson (C. St. J.), equal; Cram and Johnston, equal; Forbes and Young, equal. *Class III.*—Ray, Fortier; Clark and Fraser and Wood (D. F.), equal; Holland and Hooper and Porter and White (J. A. G.) and Willis (F. S.), equal; Planche, Wood (J. R.), Anderson (A. A.), Stevenson; Lumsden and Walcott, equal; Oliver, Duguid, Thompson.

*Third Year* (*Mechanical Engineering Course*).—*Class I.*—Davis, Sterns. *Class II.*—Goode, Hayward, Bagshaw, Cummer; Barnes and Heward and Weber and Wheatley, equal; Lefebvre and Norris, equal; Boyd (T. B.), Garth. *Class III.*—Cash, Robb, Starke; Duggan and Turnbull, equal; Warner, Hughson, Sargent, Duffield.

ENGINEERING ECONOMICS.

*Third Year.—Class I.*—Jelly, Armstrong, Cumming, Tebbutt; Cassels and McEwen, equal; Davis and Heward and Jordan, equal; Calkins and Sterns, equal; Bagshaw and Shaw, equal; Elderkin and Gnaedinger and Warburton, equal; Gass and Randolph, equal; Hayward and Henry and McMahon, equal; McKinnon; Futterer and Lefebvre, equal. *Class II.*—Cooper and McLellan and Norris and Skelton (R.), equal; Boyd (T. B.) and Chaffey and Peden, equal; Barnes and Clawson and Edwards and Hugh-Jones and McLeod (D. L.), equal; Stroud and Warner, equal; Morkill and Veilleux equal; Austin and Duggan, equal; Garth and Hanington and McGannon, equal; Sargent and Vallance and Whittall, equal; MacDermot and Page, equal; Billington and Bisson and Legris (J. A.) and McLeod (C. K.) and May, equal; Downes; Cash and Turnbull, equal; Cummer and Hall and Legris (C. E.), equal; Robertson; Boyd (W. W.) and Robb, equal; Fay; DesRosiers (A.) and Gear and McDougall and Mackintosh, equal; Paddon; Bell and Duffield, equal; McRae and Traversy, equal. *Class III.*—Biddulph and Hughson, equal; Starke, Gorman; Goode and Lesage and Rennoldson and Wilson, equal; McDougald; Weber and Wheatley, equal; Demers, Gohier.

ENGINEERING LAW.

*Fourth Year.—Class I.*—Willis (G.C.), Evans, Galloway, Wünsch, Forman, Carnwath. *Class II.*—Pope and Wilson (C. St. J.), equal; Clark and Hargraft, equal; Scrivener and Whyte (H. E.), equal; Boyd (L. C). and Koch and Parker and Ray and Ross (G.) and Wilson (R. S. L.), equal; Brydone-Jack and Hawkins and MacDonald (G. H.) and Murray and Nares (H. G.), equal; Eldridge and Macdonald (J. J.) and Murphy and Underhill, equal; Webb and Wood (D. F.), equal; Earle; Child and Collier and Skelton and Wilson (T. E.), equal; Anderson (A. A.) and Boyd (G. M.) and Gnaedinger and Macaulay and Oughtred and Planche and Richardson (C. E.) and Stevenson and Watson, equal; de Gruchy and Hooper and Peck, equal; Lumsden and O'Leary, equal; Bennet and Brotherhood and Gillies and Holland and Linagh, equal. *Class III.*—Bacon and Cram and Johnston and Oliver, equal; Dodd and Kelly and Porter, equal; Christie and Goodeve and Richardson (A. I.) and Thompson, equal; Boast and Walker and White (J. A. G.), equal; Scott (A. N.); Briercliffe and Elliott and Willis (F. S.), equal; Walcott; Fortier and Young, equal; Fraser.

*Third Year.—Class I.*—None. *Class II.*—Pullen. *Class III.*—Nichols.

ENGLISH.

*Fourth Year.—Class I.*—None. *Class II.*—McLeod, Kingsley. *Class III.*—Morkill, Forman, Forbes.

*Third Year.—Class I.*—None. *Class II.*—None. *Class III.*—Bolton, Woodyatt.

*First Year.—Class I.*—Laing; Gilbert and Stanley and Winter, equal; Garrett and Strathy, equal; Keeping and Paisley, equal. *Class II.*—Page; Hay and Marshall, equal; Gentles and Jamieson and Layne, equal; Mullin; Anglin and Boswell and Kennedy (H.) and Lawrence, equal; Copland and Draper and Tyler, equal; Bone and Werry, equal; Perry and Scott (W. D.), equal; Bailey and McLennan (W. D.) and Scott (A. G.), equal; Creasor and Fowler and Robertson and Scantlebury, equal; Booker and Davidson and Hall (J. S.) and Ross (B.) and Stavert, equal. *Class III.*—Hyde and McLaurin, equal; Cox and Cunningham and Holland and Notman and Stewart (G. L.), equal; Day and Peck and Taylor (E. A.) and Taylor (W. L.) and Wilkes, equal; Loudon; Cronk and Fricker and McLennan (R. P.) and Morgan and Ryley and Sullivan and Young, equal; Gass and Sherlock, equal; Charleson and Coulson and Darbyson and Guignard and Harding and Jerry and McFarlane and McLeod and Miller and Milne and Patterson (A. E.) and Pitts and Todd and Traversy and Troop and Waldron, equal; Bell-Irving and Ingram and Osler and Walbank, equal; Coleman and Fenster and Harris and Henry and Holland and LaMontagne and Summerskill and Wall (W. C.), equal; Dawson and Garden and Williamson, equal; Harkom and Pulford, equal; Bull and Ewart and Forman and Hall (J.) and Ingersoll and McNicoll and Thom (J. B.) and Tracy, equal; Garrow and Gilmore and Hughes and Orkin and Ribadeneyra and Stewart (C. A.), equal; Fullerton and Goodman and Grant and Henderson and Kingston and Scott (J.), equal; Hadley and McNaughton and Muir and Ross (G. W.), equal; Chalifour and Chalifoux and Morton and Scott (N. M.), equal; Brown (T. A.) and Earle and Hyams, equal.

EXPERIMENTAL PHYSICS.

*Second Year.—Class I.*—Reeder, Murphy; Cunningham and Dodd, equal; Eardley-Wilmot, Baridon; Crewdson and MacRae, equal; Lindsay; Burrow and Chambers, equal. *Class II.*—Chave and Mitchell (W. G.), equal; Cameron, Joseph, Kirby; Baker and Hamer, equal; Tait, Lauder, Davidson (W. J.), Kavanagh, Hample; Baily and Berry and Eaton, equal; Lyche, Lawrence, Mais. *Class III.*—Harvey and Stone, equal; LaForest and Wilson (W. J.), equal; Learned and Tothill, equal; Crossfield and Suckling, equal; Lyster, McDonald (L. M.), Best; Murray and O'Brien and Warwick, equal; Sawers and Wright, equal; Carson and Pitts and Thompson (G.), equal; Bell (H. G.) and Hooper and Masson (W. G.) and Morton and Skeete and Taylor and Tett, equal; Boire and Underhill, equal; Alexander (E. D.) and Calder and Grafftey and Monat and Wilson (C. P.), equal; Delgado and McEvenue, equal; Bignell and McBeath and Morrow, equal.

*First Year.—Class I.*—Garrett; Laing and MacLeod, equal; Robertson; Coote and Jamieson, equal; Bone; Morris and Scott (A. G.), equal; Garrow, Hadley, Marshall. *Class II.*—Ingersoll and McFarlane and Pitts, equal; Keeping and Stanley, equal; Bailey and Day and

Gilbert, equal; Fricker and Harkom and Ross (B.) and Scott (W. D.), equal; Bell-Irving and Fowler and Hague and Hay and Winter, equal; Cronk and Cunningham and Strathy, equal; McLennan (R. P.) and McNaughton, equal; Coke and Jerry and Tyler, equal; Stavert; Draper and Hughes and Layne, equal; Ingram and Kingston and Traversy, equal; Creasor and Holland and Mullin, equal; Milne and Scantlebury and Williamson, equal; Gentles and McMeekin, equal; Allingham and Kennedy (H.) and Osler and Stewart (G. L.) and Young, equal; Cox and Ewart and Hall (J.) and Lawrence and Waldron ,equal; Gilmore and McNicoll, equal; Duggan and Flitton and Hall (J. S.) and Morgan and Troop, equal; Mellish and Millar and Ryley, equal. *Class III.*—Goodman and Page and Sherlock and Walbank, equal; Fullerton and Taylor (E. A.), equal; Booker and Boswell and Dawson and Grant and Powter and Werry, equal; Harding and Sullivan, equal; Henderson and Notman, equal; Best and McDougall and Ross (G. W.) and Todd and Tracy, equal; Hyams and Loudon and MacLaurin, equal; Charleson and Thom (J. B.), equal; Paisley and Pearson, equal; LaMontagne; Brophy and Kennedy (H. S.), equal; Chalifoux, Coulson and Scott (N. M.), equal; Orkin and Pulford, equal; Botero and Bull and Fisher, equal; Darling and Garden and Harris and Parkins and Perrault and Wall (W. C.) and Whyte, equal; Bauset and Copland and Sandison, equal; Gass and McFadyen and Patterson (A. E.), equal; Connors and Davidson and Dempster and Ribadeneyra and Scott (J.), equal.

FOUNDATIONS AND MASONRY.

*Third Year.—Class I.*—Calkins. *Class II.*—Cassels, McEwen; Des-Rosiers (A.) and Peden, equal; Armstrong and Henry, equal; McGannon. *Class III.*—Robertson, Jelly; Hugh-Jones and McLellan, equal; Downes, Edwards, McKinnon; Staveley and Traversy, equal; Page, Vallance, MacDermot; Abbott and Gear, equal; Lesage and Veilleux, equal; Whittall; Bisson and Fay and Gohier, equal.

FREEHAND DRAWING.

*First Year.—Class I.*—Stanley ,Winter, Garrett, Gentles, Grant, Marshall. *Class II.*—Harkom, Draper, Robertson; Garden and Kitchener and McFarlane, equal; Laing and Taylor (W. H.), equal; Davignon and Forman and Harding and Hay and Layne and McNicoll and Todd, equal; Lawrence and Morgan, equal; Cox and Hyams and MacLeod and Tyler, equal; Dawson and Goodman and Hadley and Notman and Scott (A.G.), equal; Chalifour and Hall (J. S.) and Strathy, equal; Coote and Paisley, equal; Jamieson and Kennedy (H.) and Millar and Patterson (A. L.), equal; Connors and Cronk and Fowler and Scott (W. D.), equal; Carreau and Garrow and Page and Scantlebury and Stewart (G. L.), equal; Bailey and Jerry and Pitts, equal; Bone and Coke and Ewart and Gilmore and Osler and Schneider and Tracy and Troop, equal. *Class III.*—Allingham and Bull and LaMontagne and McFadyen and Sandison and Scott (N. M.), equal; Boswell and Day and Lionais and Stavert and Werry, equal; Henry and McDougall and Milne and Pulford and Walbank, equal; Creasor and Cunningham and Duggan and Gilbert and McMeekin and Sherlock, equal; Hague and Holland and Keeping and Kingston and Mullin and Peck and Ross (B.)

and Williamson, equal; Booker and McLennan (R. P.) and Powter, equal; Jackson and Ryley, equal; Chalifoux and Dempster and and Ingersoll and Parkins, equal; Gass and Ross (G. W.) and Waldron, equal; Charleson and Fricker and Loudon, equal; Coulson and Howell and Mabon, equal; Darling and Guignard and Taylor (W. L.) and Thom (J. B.) and Traversy and Wall (A. F.), equal; McLean (J. R.) and Wall (W. C.), equal; Creaghan and Perrault and Summerskill, equal; Coleman and Kennedy (H. S.), equal; Copland and Davidson and Hall (J.), equal; Hutchison; Botero and Morris and Ribadeneyra and Sullivan, equal.

FREIGHT SERVICE.

*Fourth Year.—Class I.*—McLeod. *Class II.*—None. *Class III.*—Morkill; Forbes and Kingsley and Smith (W. R.), equal.
*Third Year.—Class I.*—None. *Class II.*—Pullen, Nichols. *Class III.*—Woodyatt.

GEODESY.

*Fourth Year.—Class I.*—Whyte (H. E.), Wilson (R. S. L.). *Class II.* Earle and Macdonald (J. J.), equal; Carnwath, de Gruchy, Willis (G. C.), Ray, Wilson (C. St. J.); Dodd and Watson, equal; Walcott Cram, Goodeve, Richardson (C. E.). *Class III.*—Anderson (A. A.) and Child, equal; Johnston and Oliver, equal; Clark and Fraser and Nares (B. L.) and Underhill, equal; Collier; Hooper and Pope, equal; Bacon and Boast and Kelly and Wood (D. F.), equal; Brydone-Jack, Elliott; Bennet and Parker, equal; O'Leary, Young, Planche, Wood (J. R.), Lumsden.

GEODETIC FIELDWORK.

*Fourth Year.—Class I.*—Macdonald (J. J.) Earle. *Class II.*—Wilson (R. S. L.), Willis (G. C.), Underhill; Boast and Brydone-Jack and Wood (D. F.), equal; de Gruchy and Parker, equal; Whyte (H. E.); Dodd and Ray, equal; Bennet; Anderson (A. A.) and Child and O'Leary, equal; Goodeve and Pope, equal; Clark and Wilson (C. St. J.), equal; Collier and Kelly, equal. *Class III.*—Richardson (C. E.) and Thompson, equal; Carnwath and Walcott, equal; Bacon; Nares (B. L.) and Wood (J. R.), equal; Cram; Hooper and Johnston and Planche, equal; Oliver and Watson, equal; Fraser and Young, equal.

GEOLOGICAL FIELDWORK.

*Fourth Year.—Class I.*—Galloway; Fox and Ross (G.) and Wünsch, equal. *Class II.*—None. *Class III.*—None.

GEOLOGY.

*Third Year.—Class I.*—Cumming, Calkins; Chaffey and DesRosiers (A.), equal. *Class II.*—McLeod (D. L.); Gass and Walker, equal; Boyd, (W. W.); Futterer and Shaw, equal; Austin and McEwen and Robertson, equal; Hanington; Cooper and Page, equal; Armstrong; Jelly and Randolph and Stroud, equal; Bell and Jordan and Mackintosh, equal; Hugh-Jones and MacKinnon and McLellan and Peden,

equal; Gnaedinger and MacDermot and McMahon and Morkill and Roy, equal; Veilleux; Henry and Skelton (R.) and Traversy and Wilson, equal; Billington and May, equal. *Class III.*—Elderkin and Legris (J. A.), equal; Gorman and Whittall, equal; Hall, Donald; Bisson and Gohier, equal; Lesage and McDougald, equal; Downes and Gear, equal; Fay and Paddon, equal; Clarke and Clawson and Edwards and Lynch (T. L.), equal; Vallance; Gougeon and Warburton, equal; Legris (C. E.).

GEOLOGY HISTORICAL.

*Fourth Year.—Class I.*—Galloway; Ross (G.) and Wünsch, equal; *Class II.*—Fox. *Class III.*—None.

GEOLOGY OF CANADA.

*Fourth Year.—Class I.*—Galloway, Ross (G.), Eldridge, Murray; de Hart and Robinson, equal; Koch, Oughtred, Wünsch, Evans. *Class II.*—Fortier, Gillies, Willis (F. S.); Boyd (L. C.) and Fox, equal. *Class III.*—Porter, White (J. A. G.), Stevenson.

GRAPHICAL STATICS.

*Second Year.—Class I.*—Mais, Reeder, Chave, Murphy, Cameron, Mitchell (W. G.), Brisbane; Chambers and Eaton, equal; Crewdson. *Class II.*—Thompson (G. H.), Lyche, Jackson, Murray, MacRae, Dodd, Tait, Underhill; Kirby and Mabon and Sawers, equal; Lindsay; Suckling and Webb, equal; Baily, Pullen, Cunningham, Lyster; Crossfield and Fitzgerald and Tothill and Wright, equal; Thompson (G.); La Forest and Rogers and Stone, equal; Eardley-Wilmot and Graham and Kirkpatrick, equal. *Class III.*—Burrow and Harvey, equal; Learned and Skeete, equal; Adam and Armytage, equal; Cole and Dempster and Taylor, equal; Goodwin and Tett, equal; Hample and Masson, equal; Davies and Joseph and McEvenue and Martin and Mathewson, equal; Billington and Wilson (W. J.), equal; Boire; Bignell and Gilchrist and Paterson, equal; Hebden, O'Brien; Leach and Monat and Price, equal; Cooke and Davidson (W. J.) and Drummond, equal; Baker and Carson and Pontbriand, equal; Egerton and Eliasoph and Hamer, equal; Pitts; Alexander (W. B.) and Clawson and Creaghan and Grafftey and Morrow and Roche, equal.

HEATING AND VENTILATION.

*Fourth Year.—Class I.*—Briercliffe. *Class II.*—Robertson, Webb. *Class III.*—None.

HYDRAULICS.

*Fourth Year.—(Complete Course).—Class I.*—Linagh, Scrivener, Dodd, Macdonald (J. J.), Motyer, Kearney. *Class II.*—Dennison and Whyte (H. E.), equal; Earle, Willis (G. C.), Wilson (T. E.), Carnwath and Smith (W. P.), equal; Underhill, Wilson (C. St. J.); Anderson (A. A.) and Briercliffe and Walcott, equal; Archibald and Hargraft, equal; Falcke, O'Leary; Bacon and Wilson (R. S. L.), equal; Boast, Bennet. *Class III.*—Child and Gnaedinger, equal; Fraser and Goodeve and Pope and Richardson (C. E.) and Watson, equal; Cram and Hooper, equal; Ray and Wood (D. F.), equal;

Johnston and Pengelley, equal; Collier and Nares (B. L.), equal; de Gruchy and Wood (H. W.), equal; Ovalle and Parker and Planche, equal; Brydone-Jack and Koch and Ross (A. C.) and Webb and Young, equal; Robertson, Clark; Kelly and Scott (R. W.), equal; Allen and Brotherhood and Millican, equal; Wood (J. R.); Elliott and Nares (H. G.) and Oliver, equal.

*Fourth Year* (*Partial Course*).—*Class I.*—Walker, Eldridge, Ross (G.). *Class II.*—Wünsch, Galloway; Murray and Oughtred, equal; Porter, Evans, Fox, Stevenson, Boyd, (L. C.). *Class III.*—Robinson, Raymond, Holland, Willis (F. S.), Gillies, Boyd (G. M.), Fortier.

HYDRAULIC MACHINES.

*Fourth Year.*—*Class I.*—Linagh and Macdonald (J. J.) and Parker, equal; Carnwath and Earle, equal; Scrivener and Willis (G. C.), equal. *Class II.*—Dodd and Goodeve, equal; Pope, Whyte (H. E.), de Gruchy; Anderson (A. A.) and Hooper and Underhill, equal; Boast and Kearney, equal; Brydone-Jack and O'Leary, equal; Bennet and Gnaedinger and Nares (B. L.), equal; Allen and Archibald and Cram, equal; Anderson (S. C.); Dennison and Motyer and Wilson (C. St. J.) and Wilson (R. S. L.) and Wilson (T. E.) and Wood (D. F.), equal; Bacon and Falcke, equal; Nares (H. G.) and Wood (H. W.), equal; Briercliffe and Walcott, equal. *Class III.*—Johnston, Watson; Collier and Elliott and Millican, equal; Planche, Clark, Wood (J. R.), Child; Ovalle and Pengelley and Richardson (C. E.), equal; Lumsden and Webb, equal; Robertson; Ray and Scott (R. W.), equal; Koch and Oliver, equal; Brotherhood and Fraser, equal; Thompson; Christie and Duguid and Kelly, equal.

## *LABORATORIES.*

A. C. LABORATORY.

*Fourth Year.*—*Class I.*—Kearney, Callander, Gregory, Smith (W. P.), Ovalle; Allen and Scrivener, equal; Staveley. *Class II.*—Archibald, Motyer; Dennison and Murphy and Wood (H. W.), equal; Falcke and Millican, equal; Hudson, Alward, Wilson (T. E.), Nares (H. G.), Ivey. *Class III.*—Scott (R. W.), MacKay (E.),Irwin,Davis, Phillips. UNRANKED—Hollinsed.

CHEMICAL LABORATORY.

*Second Year* (*Chemistry and Metallurgy Courses*).—*Class I.*—None. *Class II.*—Dougall. *Class III.*—None.

*Second Year.*—*Class I.*—Murphy; Baily and MacRae and Reeder, equal; Joseph; Crewdson and Skeete and Wright, equal. *Class II.*—Dodd; Burrow and Cameron and Kirkpatrick and Tothill, equal; Mais and Tait, equal; Jackson and Mitchell (W. G.), equal; Crossfield and Eaton, equal; Cole and Goodwin, equal; Eliasoph and Fitzgerald, equal; Suckling, Davidson (W. J.); Hample and Hooper, equal; Harvey and Kavanagh, equal; Chambers and Eardley-Wilmot and Lyster and Murray and Price, equal. *Class III.*—Berry and Davies and Learned and Martin and Roy, equal; Adam and Baker and Hamer and Hebden and Lindsay, equal; Gilchrist and Tett, equal; Grafftey and Warwick, equal; Roche; Boire and McDonald

(L. M.) and Mathewson and Morrow and Paterson and Taylor, equal; Hanley; Egerton and McEvenue and Pontbriand, equal; Baridon and Kirby and Thompson (G.) and Wilson (W. J.), equal; McCuaig; Lawrence and McCaghey, equal; Dempster and Monat, equal; Ludington and Morton, equal; Webb; Bignell and Brisbane and Cooke, equal; Bell, Drummond; Cardinal and Davidson (C. G.) and Masson and Pitts, equal.

CHEMICAL LABORATORY (INORGANIC QUALITATIVE ANALYSIS).

*Third Year.—Class I.*—None. *Class II.*—Elderkin, Futterer; Gass and Hanington and Roy, equal; Chaffey, Cooper. *Class III.*—MacDougall, Stroud; Boyd (W. W.) and Legris (J. A.), equal; May; Gorman and Wilson, equal; Matheson, Gougeon; Paddon and Warburton, equal; Demers and Lynch (T. L.) and Routledge, equal.
*Second Year.—Class I.*—None. *Class II.*—Dougall. *Class III.*—None.

CHEMICAL LABORATORY (INORGANIC QUANTITATIVE).

*Fourth Year (Metallurgy Course).—Class I.*—None. *Class II.*—None. *Class III.*—Porter.
*Third Year (Metallurgical Engineering Course).—Class I.*—None. *Class II.*—McLeod (D. L.), Gnaedinger. *Class III.*—Randolph; Hall and McMahon, equal.
*Third Year (Metallurgy Course).—Class I.*—None. *Class II.*—None. *Class III.*—Clarke and Mackintosh, equal.

CHEMICAL LABORATORY (INORGANIC QUANTITATIVE ANALYSIS).

*Third Year (Chemical Engineering Course).—Class I.*—Tebbutt. *Class II.*—McIntyre. *Class III.*—McLeod (C. K.), Biddulph.
*Third Year (Chemistry Course).—Class I.*—None. *Class II.*—Shaw, McDougald, Skelton (R.). *Class III.*—Austin, Jordan.

CHEMICAL LABORATORY (ORGANIC).

*Third Year.—Class I.*—Hyman, Tebbutt. *Class II.*—Shaw; Biddulph and McIntyre, equal. *Class III.*—Skelton (R.), Austin; McLeod (C. K.) and Jordan, equal.

C. C. LABORATORY.

*Third Year.—Class I.*—Macleod (D. K.), Schippel; Cohen and Miller, equal; Blois and Ryan, equal; Cook and McNiven and Steeves, equal. *Class II.*—Hutchins and Reinhardt, equal; McCammon and Wade, equal; Casey; Burr and Cushing, equal. *Class III.*—Brown, Hull, Prince, Kearns; Anderson and Bolan, equal; Lynch (J. A.) and Mather and Salter, equal.

ELECTRICAL ENGINEERING LABORATORY.

*Fourth Year (Mechanical Engineering Course).—Class I.*—None. *Class II.* Brotherhood and Campbell and Gnaedinger and Scott (A. N.) and Skelton, equal; Briercliffe and Hargraft and Linagh and Robertson and Webb, equal. *Class III.*—None.

ELEMENTS OF ELECTRICAL ENGINEERING LABORATORY.

*Fourth Year.—Class I.*—Walker, Nares (B. L.); Koch and Macdonald (J. J.), equal; Eldridge and Galloway and Wünsch, equal; Boyd (L. C.) and Carnwath and Earle and Ray and Ross (G.) and Whyte (H. E.) and Wood (D. F.) and Wood (J. R.), equal. *Class II.*—Bacon and Wilson (R. S. L.), equal; Clarke and Collier and Dodd and Willis (G. C.), equal; Hooper; Child and de Gruchy and Porter and Walcott, equal; Kelly; Bennet and Johnston and Wilson (C. St. J.) and Young, equal; Gillies and Goodeve and O'Leary and Pope, equal; Richardson (C. E.) and Watson, equal; Boast; Duguid and Lumsden, equal; Brydone-Jack and Forbes and Fraser and Kingsley and McLeod and Parker and Smith (W. R.) and Underhill, equal; Boyd (G. M.); Evans and Murray, equal; Fox and Planche and Stevenson, equal. *Class III.*—White (J. A. G.), Elliott; Fortier and Oughtred and Willis (F. S.), equal; Cram and Holland and Oliver and Thompson, equal.

*Third Year.—Class I.*—Heward and Robb, equal. *Class II.*—Barnes and Hayward, equal; Boyd (T. B.) and Cummer and Duggan and Norris and Turnbull, equal; Davis and Sargent and Sterns, equal; McRae, Goode. *Class III.*—Bagshaw and Lefebvre and Warner, equal; Cash and Garth and Hughson and Rennoldson and Starke and Weber and Wheatley, equal.

GEODETIC LABORATORY.

*Fourth Year.—Class I.*—Underhill and Wilson (C. St. J.), equal. *Class II.*—Earle and Macdonald (J. J.), equal; Child and Thompson, equal; Clark and Cram and Ray and Willis (G. C.) and Wood (J. R.), equal; Young; O'Leary and Oliver and Planche, equal; Boast and Collier and Johnston and Wood (D. F.), equal; Carnwath and Dodd and Walcott and Wilson (R. S. L.), equal; Brydone-Jack; Anderson (A. A.) and Bennet and Parker and Richardson (C. E.), equal; de Gruchy and Goodeve and Whyte, equal; Nares (B. L.), Watson, Fraser, Duguid, Pope; Kelly and Lumsden, equal; Elliott and Hooper, equal; Bacon.

HYDRAULIC LABORATORY.

*Fourth Year.—Class I.*—Linagh, Scrivener, Whyte (H. E.), Kearney, Earle, Underhill; Parker and Robertson, equal; Cram and Dodd, equal; Johnston and Macdonald (J. J.), equal; Dennison; Child and Wilson (C. St. J.), equal. *Class II.*—Ovalle and Wood (H. W.), equal; Nares (H. G.) and Ross (A. C.), equal; Faleke and O'Leary, equal; de Gruchy and Fraser and Willis (G. C.), equal; Nares (B. L.) and Wilson (R. S. L.), equal; Kelly and Oliver, equal; Anderson (A. A.) and Carnwath, equal; Bennet and Motyer and Pengelley and Richardson (C. E.) and Wood (J. R.), equal; Gnaedinger and Millican and Wood (D. F.), equal; Archibald and Brotherhood and Ray, equal; Collier; Allen and Briercliffe and Scott (R. W.), equal; Boast and Webb and Wilson (T. E.), equal; Clark and Pope, equal. *Class III.*—Davis; Hooper and Planche and Thompson, equal; Christie and Goodeve and Watson and Young, equal; Brydone-Jack, Elliott, Bacon, Walcott, Hargraft, Philips, Smith (W. P.), Forman, Lumsden.

MECHANICAL ENGINEERING LABORATORY.

*Fourth Year* (*Electrical Engineering Course*).—*Class I.*—Dennison; Allen and Kearney, equal; Scrivener, Archibald, Murphy, Smith (W. P.); Hudson and Ivey, equal. *Class II.*—Millican and Philips and Staveley and Wood (H. W.), equal; Nares (H. G.); Callander and Ovalle, equal; Alward and Davis, equal; Falcke and Gregory and Scott (R. W.), equal; Irwin and Pengelley, equal. *Class III.*—None.

*Fourth Year* (*Mechanical Engineering Course*).—*Class I.*—Linagh, Gnaedinger. *Class II.*—Hargraft. *Class III.*—Briercliffe, Webb, Skelton, Brotherhood.

*Third Year* (*Chemical, Civil, Electrical, Mechanical, Metallurgical and Mining Engineering Courses*).—*Class I.*—Tebbutt, Sterns; Macleod (D. K.) and Norris, equal; Schippel, Garth, Barnes, Cooke; Goode and Hayward, equal; Davis; Cumming and McLeod (D. L.), equal; McNiven; Bagshaw and Blois and Futterer and May, equal; McIntyre. *Class II.*—Cash, Casey; Duggan and Randolph, equal; McCammon; Cohen and Hutchins and McEwen, equal; Weber; Heward and Hugh-Jones, equal; Stroud; MacDermot and Steeves and Wade, equal; Fay and Johnston and MacKinnon, equal; Chaffey and Cushing and DesRosiers (A.) and McGannon and Prince and Reinhardt, equal; Jelly and Lefebvre, equal; Hughson and Ryan, equal; Cooper and Gass and Lesage, equal; Peden and Wheatley, equal; Gnaedinger and Robertson and Roy and Warner, equal; Biddulph and Dixon, equal; Boyd (T. B.) and Hanington and Henry and McLellan and Salter, equal; Elderkin and Robb, equal. *Class III.*—Page; Burr and Cummer, equal; McRae, Traversy; Bell and Kearns, equal; Edwards and McMahon, equal; Calkins; Bolan and Boyd (W. W.) and Downes and Lynch (J. A.), equal; Armstrong and Nichols and Starke, equal; Rennoldson, Brown, Whittall; Turnbull and Wilson, equal; Sargent; Billington and Cassels and Vallance, equal; Hall and McDougall and Woodyatt, equal.

METALLURGICAL LABORATORY (PART I.).

*Fourth Year.*—*Class I.*—Koch and Porter, equal. *Class II.*—Oughtred and White (J. A. G.), equal; Boyd (G. M.) and Eldridge and Murray, equal; Stevenson; de Hart and Evans and Fortier and Gartshore and Holland and Willis (F. S.), equal. *Class III.*—Gillies and LaForest, equal.

*Fourth Year* (*Optional Course*).—*Class I.*—Galloway and Wünsch, equal. *Class II.*—Ross (G.). *Class III.*—None.

METALLURGICAL LABORATORY (PART II.).

*Fourth Year.*—*Class I.*—Porter. *Class II.*—None. *Class III.*—LaForest.

METALLURGICAL LABORATORY.

*Third Year.*—*Class I.*—Hall; McMahon and Randolph, equal. *Class II.*—Gnaedinger, McLeod (D. L.), Mackintosh, Clarke. *Class III.*—None.

MINERAL ANALYSIS.

*Fourth Year.—Class I.*—Galloway. *Class II.*—de Hart, Oughtred; Koch and Murray and Robinson, equal; Ross (G.), Evans; Gillies and Raymond, equal. *Class III.*—Stevenson; Fortier and Willis (F. S.), equal; Holland, Boyd (G. M.), White (J. A. G.), Hasbrouck.

MINERALOGY LABORATORY.

*Third Year.—Class I.*—Futterer; Austin and McLeod (D. L.) and Randolph, equal; Shaw; Chaffey and Gass, equal; Tebbutt; McDougald and McIntyre, equal; Legris (J. A.) and Skelton (R.), equal. *Class II.* Boyd (W. W.) and Elderkin and Hanington and Roy, equal; Jordan and Wilson, equal; Bell and Lynch (T. L.), equal; Cooper and May, equal; McDougall, Clawson; Billington and Stroud, equal; de Hart and Hall, equal; Mackintosh and McMahon, equal; Clarke and Warburton, equal; McLeod (C. K.) and Matheson and Paddon, equal. *Class III.*—Gnaedinger and Routledge, equal; Gougeon, Gorman, Biddulph, Demers.

ORE DRESSING LABORATORY.

*Fourth Year (Optional Courses (b) and (c)).—Class I.*—De Hart and Eldridge and Murray, equal. *Class II.*—Evans and Oughtred, equal; Raymond and Robinson, equal; Fortier and Gillies, equal. *Class III.*—Boyd (G. M.) and Koch and Willis (F. S.), equal; Stevenson and White (J. A. G.), equal; Holland.

*Fourth Year (Thesis Work).—Class I.*—De Hart, Galloway; Eldridge and Murray, equal. *Class II.*—Evans and Oughtred, equal; Wünsch; Koch and Ross (G.), equal; Fortier and Gillies and Willis (F. S.), equal. *Class III.*—Boyd (G. M.), Stevenson, White (J. A. G.).

*Third Year.—Class I.*—Cumming. *Class II.*—Hanington, Billington; Bell and Hall, equal; Wilson, McMahon, Futterer; Boyd (W. W.) and Elderkin and Legris (J. A.) and Stroud, equal; Gnaedinger and May, equal. *Class III.*—Demers; Chaffey and Warburton, equal; Gass and Paddon and Roy, equal; Randolph; Cooper and Mackintosh and Matheson, equal; Clarke and McLeod (D. L.), equal.

PHYSICAL LABORATORY.

*Third Year.—Class I.*—Blois and Cook and Mcleod (D. K.) and Steeves, equal; Wade; Cohen and McNiven, equal. *Class II.*—McCammon and Salter, equal; Ryan; Casey and Hutchins and Prince and Schippel, equal; Burr and Mackay and Thompson, equal; Anderson and Cushing and Reinhardt, equal. *Class III.*—Brown and Kearns, equal; Darling, Bolan.

*Second Year.—Class I.*—Murphy, Reeder, Baily, Eardley-Wilmot, Crewdson, Eaton, Eliasoph; Crossfield and Hample, equal. *Class II.*—Mais, Lawrence; Berry and Webb, equal; Bignell; Cole and Pickel, equal; Cameron and Joseph and MacRae, equal; Tait and Wright, equal; Warwick, Dempster; Adam and Alexander (E. D.) and Grafftey, equal; Thompson (G.); McDonald (L. M.) and Murray, equal; Dodd and Lindsay, equal; Taylor and Wilson (W. J.), equal; Leach; Hanley and Skeete, equal; Learned; Best and Gilchrist and Hamer and Harvey and Kirkpatrick, equal; Paterson. *Class III.*—Pontbriand and Tothill, equal; Donald and Martin and Mitchell (W. G.), equal; Cunningham and Hebden, equal; Baker

and Tett, equal; Davies and Kirby and Morrow, equal; Dougall and McCaghey and Mathewson and Roche and Suckling, equal; Baridon and Burrow and Chambers and Davidson (W. J.) and Price, equal; Boire and Ryan, equal; Masson; Brisbane and Calder and Ekers and Roy and Wilson (C. P.), equal; Egerton and Goodwin and Kavanagh, equal; Macdonald (N. M.) and McEvenue and Monat, equal; Fitzgerald, Ludington; Cooke and McCuaig, equal; Bell; Drummond and Hooper and Lyster and Mitchell (L. S.) and Pitts, equal.

*First Year.—Class I.*—Robertson; Fricker and Ross (B.), equal; Coote and Stanley, equal; Sandison; Garrett and Perrault, equal; Gilbert, Fowler, Stalker, Taylor (W. H.). *Class II.*—Jamieson; Bailey and Boswell and Ewart and Harkom, equal; Sherlock and Traversy, equal; Allingham and Creasor and McMeekin and Scott (W. D.), equal; Garden; Garrow and Hay and Mullin and Pitts, equal; Hague and Scott (A. G.) and Strathy, equal; Day; Connors and Cronk and Hall (J. S.) and MacLeod and Tyler and Waldron and Winter, equal; Charleson and Coulson and Gentles and McFarlane and Powter, equal; Stavert; Copland and Cunningham and Hadley and Milne and Smith ,equal; Bone and Gass and Hall (J.) and Harris and Holland and Kennedy (H.) and Kennedy (H. S.), equal; Draper and Goodman and Grant and Keeping and Orkin and Stewart and Summerskill, equal; Davignon and Gilmore and Lawrence and McDougall, equal; Duggan and Pearson, equal; Booker and McLean (J. R.) and Walbank, equal; Forman and Henry and Hyams and Laing and McLennan (R. P.) and Tracy, equal; Harding and McNicoll and Notman and Parkins and Wall (W. C.) and Williamson, equal; Bull and Patterson (A. E.), equal. *Class III.*—Kingston and Osler and Ross (G. W.), equal; Taylor (W. L.); Best and Guignard and Loudon and Morris and Pulford and Thom (J. B.) and Waterous, equal; Coleman and Ingersoll and Layne and Marshall and Sullivan, equal; Brophy and Davidson and Morgan, equal; Scott (N. M.) and Todd and Werry, equal; Coke and Dawson and Dempster and Scantlebury and Young, equal; LaMontagne and Page and Paisley, equal; Doyle and Millar, equal; Chalifoux, Cox; Barlow and Darling and Jerry, equal; Carreau and Ryley, equal; Lionais and Peck, equal; Troop; Fauteux and Ribadeneyra, equal; Botero and Brown (T. A.) and McFadyen and MacLaurin and Wall (A. F.), equal.

STRENGTH OF MATERIALS LABORATORY.

*Third Year.—Class I.*—Macleod (D. K.), Tebbutt, Davis, Sterns, Robb. *Class II.*—Barnes, Calkins; Elderkin and Hutchins and Lefebvre, equal; Steeves; Hugh-Jones and Stroud, equal; McIntyre; Casey and Randolph, equal; McLeod (D. L.) and Schippel, equal; Blois and Ryan, equal; Hayward, MacDermot; Cash and Cook and Heward and Prince, equal; Chaffey and Gall and Wheatley, equal; Duggan and Futterer and Weber, equal; Armstrong and Des-Rosiers (A.) and McLellan and McRae, equal; Billington and Cumming and Legris (J. A.) and McEwen and McMahon, equal; Bagshaw and MacKinnon and Norris, equal. *Class III.*—Bell and Bisson and Garth and Salter, equal; McNiven and Starke, equal; Dixon; Cushing and Fay and Hall and Jelly and McCammon and McLeod (C. K.) and Robertson and Wade, equal; Boyd (W. W.) and Brown and Cohen and Cummer and Kearns and McGannon and Wilson, equal; Roy; Burr and Downes and Peden and Sargent

and Turnbull, equal; Duffield and Page, equal; Cooper and Gass and Johnson and Mather and May and Rennoldson, equal; Bolton and Henry and Hughson, equal; Edwards and Gnaedinger and Goode and Vallance and Veilleux, equal; Campbell (C.) and Connolley and Hanington and Reinhardt, equal; Traversy; Boyd (T. B.) and Paddon, equal; Biddulph and Hull, equal; Whittall; Bolan and Cassels and Gohier, equal; Lesage and Matheson, equal; Gorman.

LOCOMOTIVE ENGINEERING.

*Fourth Year.—Class I.*—Linagh. *Class II.*—Gnaedinger, Skelton. *Class III.*—Brotherhood and Scott (A. N.), equal.

MACHINE DESIGN.

*Fourth Year (Electrical Engineering Course).—Class I.*—Scrivener, Gregory, Kearney. *Class II.*—Archibald and Smith (W. P.), equal; Ivey, Callander, Falcke; Dennison and Murphy, equal; Staveley, Allen. *Class III.*—Hudson and Irwin and Ovalle, equal; Alward, Scott (R. W.), Wilson (T. E.), Pengelley, Millican; Motyer and Ross (A. C.), equal; Wood (H. W.), Vinet, Nares (H. G.).

*Fourth Year (Mechanical Engineering Course).—Class I.*—Linagh. *Class II.*—Gnaedinger, Hargraft. *Class III.*—Briercliffe, Robertson, Cook, Webb.

*Third Year.—Class I.*—Schippel, Macleod (D. K.), Davis, Sterns, Steeves, Cook. *Class II.*—Barnes, Duggan; Blois and Cohen, equal; Hayward; Heward and Warner, equal; Hutchins and Wheatley, equal; Bagshaw and Ryan, equal; Garth; Cash and Kearns and Norris and Robb, equal. *Class III.*—Gall, McNiven; Boyd (T. B.) and Prince, equal; Lefebvre; Cushing and Wade, equal; Goode, McRae; Cummer and McCammon and Weber, equal; Casey and Reinhardt and Sargent, equal; Dixon and Hughson, equal; Rennoldson, Darling.

MAPPING.

*Third Year (Civil Engineering and Railways Courses).—ClassI.*—Des-Rosiers (A.), Henry. *Class II.*—Armstrong and Calkins and Hugh-Jones and MacDermot, equal; Edwards and Jelly and McLellan and Peden and Robertson, equal; Cassels and McGannon and Traversy and Whittall, equal; McEwen. *Class III.*—Bolton and Lesage and MacKinnon and Page and Veilleux, equal; Gear and Gohier and Vallance, equal; Connolley and Downes and Fay, equal.

*Third Year (Mining Engineering Course).—Class I.*—None. *ClassII.*—Hanington; May and Stroud, equal; Chaffey and Elderkin and Gass and Warburton, equal. *Class III.*—Bell and Cooper, equal; Legris (J. A.) and Roy, equal; Boyd (W. W.) and Futterer and Gorman and Matheson, equal; Wilson, Paddon.

*Second Year.—Class I.*—None. *Class II.*—Hebden and Learned, equal; Reeder, Kirby; Chambers and MacRae and Mais, equal; Bauset and Thompson (G. H.), equal; Cunningham and Rogers, equal; Cameron and Crewdson and Dodd and Goodwin and Suckling, equal; Baily and Leach and Webb, equal; Jackson and Mabon, equal; Harvey and Mitchell (W. G.) and Skeete and Tothill, equal; Bignell and Burrow and Eardley-Wilmot and Eaton and Hample and Murray and Pontbriand and Tait and Tett, equal; Cooke;

Dempster and Fitzgerald and Kirkpatrick and Lawrence and McConkey and Murphy, equal; Baridon and Joseph and McCaghey and Ouimet, equal; Boire and Grafftey and Taylor, equal; Baker and Hooper and Lindsay and Mathewson and Morrow, equal; Berrill and Crossfield and Donald and Hanley and McDonald (L. M.) and O'Donnell and Wright, equal; McEvenue and Wilson (W. J.), equal; Berry and Brisbane and Cole and Creaghan and Davies and Morton and Roy and Thompson (G.), equal. *Class III.* McBeath and Masson and Patterson and Ryan, equal; Eliasoph and Gilchrist and Wilson (C. P.), equal; Billington and Cumming and Ludington and Martin, equal; Hutchison and Roche, equal; Lyster and McCuaig, equal; Warwick, Kavanagh, Davidson (W. J.); Hamer and Macdonald (N. M.), equal.

MATERIALS OF CONSTRUCTION.

*Second Year.—Class I.*—Cumming, Murphy, Mitchell (W. G.), Crewdson, Davidson (W. J.), Cunningham; Joseph and Mabon, equal; Chambers. *Class II.*—Pickel; Jackson and Mais and Reeder and Wright, equal; Baily and Thompson (G. H.), equal; Eardley-Wilmot; Cameron and Lyster, equal; Eaton and Hebden, equal; Carson and Dodd and Morrow, equal; Gilchrist and Harvey and MacRae and Tait, equal; Chave; Lindsay and Mitchell (L. S. ) and Price, equal; Baker, Boire. *Class III.*—Lyche; Kirkpatrick and Hample, equal; Baridon and Bell (H. G.) and Bignell and Hooper, equal; Donald and Goodwin, equal; Stone and Underhill, equal; Crossfield and McEvenue, equal; Fitzgerald; Armytage and Pitts and Tett, equal; Rogers and Webb, equal; Cooke and Davies, equal; Learned, Sawers, Lawrence; Cole and Eliasoph and Kirby and Moseley, equal; Hamer and Leach and Mathewson, equal; Skeete; Drummond and Wilson (C. P.), equal; Creaghan and Dempster and Egerton and McBeath and Martin and O'Brien and Paterson, equal; Berry and Burrow and Wilson (W. J.), equal.

## *MATHEMATICS.*

CALCULUS.

*Third Year.—Class I.*—Ryan. *Class II.*—Hutchins, Steeves, Schippel, McNiven, Blois; Cohen and Cook, equal; Macleod (D. K.). *Class III.*—Reinhardt, Cushing; Brown and Casey, equal; Salter; Kearns and Wade, equal; Bolan.

MECHANICS.

*Third Year.—Class I.*—Macleod (D. K.), Mabon, Norris, Randolph, Cohen. *Class II.*—Barnes; Ryan and Tebbutt, equal; Steeves; Blois and DesRosiers (A.) and Miller and Sterns, equal; McEwen, Hutchins; Hughson and Peden, equal; McNiven; Turnbull and Wade, equal. *Class III.*—Jelly; Bagshaw and Cummer, equal; Hayward and MacDermot, equal; Boyd (W. W.) and Davis and Duggan, equal; Casey and Cook and Henry and Lapp and MacKinnon, equal; Beauvais and Burr and Calkins, equal; Abbott and Brown and Kearns and McLeod (D. L.) and Weber, equal; Heward; Cushing and Edwards and Stroud, equal; Dixon and Gall and Lefebvre and Lesage and Schippel, equal; Boyd (T. B.) and Johnson and Robb, equal; McGannon; Cassels and Gartshore, equal; Bolton and Campbell (C.) and Chaffey and Gohier and Page and

Rennoldson, equal; Futterer and Gass and Reinhardt and Robertson, equal; McIntyre and McLeod (C. K.) and Warner, equal; Elderkin and Hugh-Jones and Matheson, equal; Bisson and Bolan and Downes and Duffield and Goode and McLellan and McRae and Ralston and Veilleux and Whittall, equal; Hall and Lynch (J. A.) and McCammon and Vallance and Wheatley, equal.

ANALYTIC GEOMETRY.

*Second Year.—Class I.*—Dodd, Murphy, Chave, Crewdson. *Class II.*—Reeder, MacRae; Berry and Burrow and Murray and Tothill, equal; Baridon; Cunningham and Hooper and Mais and Webb, equal; Cameron; Baily and Fitzgerald, equal; Chambers; Crossfield and Joseph, equal; Carson and Davidson (D. A. L.) and Thompson (G. H.), equal. *Class III.*—Hamer; Eaton and Harvey and Wright, equal; Brisbane and Eardley-Wilmot and LaForest and Lindsay, equal; Bell (H. G.) and Kavanagh, equal; McDonald (N. M.) and Morrow, equal; Dempster and Lawrence and O'Donnell and Pontbriand, equal; Eliasoph and Lyster, equal; McEvenue and Mitchell (W. G.) and Pitts and Skeete and Tait, equal; Alexander (E. D.) and McDonald (L. M.) and Roche, equal; Kirby, Lyche; Armytage and Baker and Delgado and Hanley and Nichols, equal; Donald and McCuaig and Warwick, equal; Davidson (W. J.) and McBeath and Taylor and Wilson (W. J.), equal; Adam and Cole and Sclater and Underhill and Wilson (C. P.), equal; Stone and Suckling, equal; Boire and Cardinal and Davies and Dougall and Draper and Gordon and Hebden and Kirkpatrick and Leach and Learned and Ludington and Lynch and McCaghey and Martin and Rogers and Tett and Thompson (G.), equal.

CALCULUS.

*Second Year.—Class I.*—Dodd, Murphy, Crewdson; Cunningham and MacRae and Reeder, equal. *Class II.*—Joseph; Berry and Chave, equal; Mitchell (W. G.), Mais, Thompson (G. H.); Eaton and Eliasoph, equal; Tothill, Burrow, Crossfield; Baker and Cameron and Dempster and Fitzgerald and Legris and Lindsay, equal. *Class III.*—Pullen and Wright, equal; Tett; Kavanagh and Lyster, equal; Baily and Lyche, equal; Hooper and Lawrence and McEvenue and Webb, equal; Hamer and Hanley and LaForest, equal; Learned and Murray, equal; Cole and Graham (E. J.) and Rogers and Wilson (W. J.), equal; Roche, Chambers, Kirkpatrick; Donald and Pontbriand, equal; Boire and Skeete, equal; Eardley-Wilmot and Harvey and Lauder, equal; Alexander (E. D.) and Carson and Morrow and Pitts and Tait and Taylor and Thompson (G.), equal.

MECHANICS.

*Second Year.—Class I.*—Dodd and Murphy, equal; Crewdson, MacRae, Chambers, Wright, Mais. *Class II.*—Reeder, Berry, Chave, Eaton, Tothill, Cunningham; Crossfield and Fitzgerald and Joseph, equal; Cameron and Mitchell (W. G.), equal; Thompson (G. H.). *Class III.*—Burrow and Eardley-Wilmot and Sawers, equal; Baker, Harvey, Tett; Lindsay and Tait, equal; Lyche; Graham (E. J.) and Lyster and Thompson (G.), equal; Baily and Hanley and Kirby and McDonald (L. M.) and Murray and Pullen and Roche, equal; Baridon and Dempster and Rogers, equal; Eliasoph

and Hample and Kavanagh and Lauder and Webb, equal; Lawrence and McEvenue and Morrow and Suckling and Taylor, equal; Alexander (E. D.) and Boire and Brisbane and Cole and Hamer and Hooper and Kirkpatrick and Leach and Learned and McBeath and Skeete, equal.

ALGEBRA.

*First Year.—Class I.*—Keeping and Scott (W. D.), equal; Jamieson, Robertson. *Class II.*—McNaughton, Laing, MacLeod, Hay; Gilbert and Stanley, equal; Coote ;Hall (J.) and Scott (A. G.), equal; Bone and Garrow and Holland, equal; Cunningham; Hadley and Strathy, equal; Day and Fricker, equal; Bailey and Carreau and Creasor and Garrett and Hague and Perrault, equal. *Class III.*—Ewart and Goodman and Harkom and Marshall and Pitts and Tyler, equal; Grant and Hyams and Jerry and McDougall and Notman and Ross (B.), equal; Bell-Irving and Guignard and Layne and Stavert, equal; MacFarlane and Pickel, equal; Kingston and Waldron, equal; Draper and Monat and Thom (J. B.), equal; Boswell and Kennedy (H. S.) and Osler and Taylor (E. A.) and Winter, equal; Lawrence and Mullin, equal; Chalifoux; Duggan and Flitton and LaMontagne and Morris, equal; Gentles and McLennan (R. P.) and Williamson, equal; Fowler and Hall (J. S.) and Morgan and Summerskill, equal; Fullerton and Garden and Hughes and Kennedy (H.) and Milne and Parkins, equal; Connors and Gilmore and Orkin and Ryley and Scott (N. M.) and Tracy and Troop, equal; Ingram and Page and Scantlebury and Sullivan and Young, equal; Davidson (G. H.) and Forman and Lionais and Mellish and Millar and Powter, equal; Allingham and Bauset and Chalifour and Coke and Coulson and Cox and Davignon and Dawson and Dempster and Henry and MacLaurin and McMeekin and Patterson (A. E.) and Ribadeneyra and Scott (J.) and Stewart (G. L.) and Traversy and Whyte, equal.

GEOMETRY.

*First Year.—Class I.*—Robertson; Duggan and Hague and Laing and McNaughton and Stanley, equal. *Class II.*—Patterson (A. L.), MacLeod, Day, Strathy, Scott (A. G.); Cunningham and Jamieson, equal; Boswell and Hughes and Keeping, equal; Fricker and Hadley, equal; Flitton; Holland and Osler and Taylor (W. H.), equal; Garrett, Ingram; Coote and Fowler and Hay and Scott (W. D.), equal; Winter; Gilbert and Perrault, equal; Bailey and Bone and Gentles and Gilmore and Goodman and Hall (J.) and Jerry and McDougall and McFarlane and Pitts and Ross (B.) and Ryley and Sullivan and Taylor (E. A.), equal. *Class III.*—Creasor, Bell-Irving; Fullerton and Traversy, equal; Ewart and Garrow and Kennedy (H. S.) and Waldron, equal; Allingham and Kennedy (H.) and Marshall, equal; Harkom and Tyler, equal; Hall (J. S.) and McLennan (R. P.) and Milne and Stavert, equal; Dempster and O'Shea, equal; Troop; Cox and Davidson (G. H.) and Muir and Tracy, equal; Earle and Hodsdon and Kingston and Layne and Thom (J. B.), equal; Scantlebury; Chalifoux and McNicoll and Ribadeneyra, equal; Coleman and Grant and Taylor (W. L.), equal; Berrill and Chalifour and Griffith and Henderson and Orkin and Scott (N. M.), equal; Bull and Doyle and Garden and Henry

and Lionais and Morris and Ney and Powter and Walbank, equal; Guignard and Hyams and Smith, equal; Bacque and Brophy and Brown (T. A.) and Connors and Cronk and Draper and Harding and Lawrence and McMeekin and Morkill and Notman and Page and Paisley and Sandison and Scott (J.) and Sherlock and Stewart (C. A.) and Stewart (G. L.) and Wall (A. F.) and Werry and Williamson and Young, equal.

MECHANICS.

*First Year.—Class I.*—McNaughton, MacLeod, Robertson, Stanley; Hague and Holland and Jamieson and Laing and Scott (W. D.), equal. *Class II.*—Day, Gentles; Hay and Keeping, equal; Boswell and Duggan and McFarlane, equal; Coote, Flitton; Creasor and Strathy and Waldron, equal; Bone and Garrow and Hadley and Layne, equal; Hall (J.) and Osler and Pickel and Scott (A. G.) and Winter, equal; Pitts; Bell-Irving and Carreau and Garrett and Gilbert and Goodman, equal. *Class III.*—Hughes; Cunningham and Ewart and Harkom, equal; Gilmore and Jerry and Kennedy (H.) and McDougall and Perrault, equal; Marshall and Williamson, equal; Bailey and Mullin, equal; Allingham and Coke and Draper and Fricker, equal; Fullerton and Hall (J. S.) and Morris and Orkin and Page, equal; Fowler and Stavert and Traversy and Tyler, equal; Kennedy (H. S.) and Lawrence and Notman, equal; Cox and Ingram and Ryley, equal; Copland and Pearson and Ribadeneyra, equal; Dempster and Dixon and Garden and Kingston and Loudon and McLennan (R. P.) and Scott (J.) and Taylor (E. A.) equal; Hebden and Scantlebury and Werry, equal; Bull and Grant and Mellish and Milne, equal; Charleson and Cronk and Davidson and Gass and McMeekin, equal; Bauset and Botero and Harding and McFadyen, equal; Coulson and Powter and Ross (G. W.) and Scott (N. M.) and Walbank, equal; Calder and Fisher and Forman and Hyams and Morgan and Smith and Wall (A. F.), equal; Henry and Millar and Patterson (A. E.) and Ross (B.) and Sherlock and Stewart (G. L.) and Summerskill and Thom and Tracy and Whyte, equal.

TRIGONOMETRY.

*First Year.—Class I.*—MacLeod, Coote, Robertson, McNaughton, Jamieson; Bone and Laing, equal; Hadley. *Class II.*—Scott (A. G.) and Strathy, equal; Creasor, Hague, Gilbert, Day, Bell-Irving; Allingham and Scott (W. D.), equal; Hall (J.) and Keeping, equal; Holland; Garrett and Guignard, equal; Fricker and Hay and Osler and Pitts and Waldron, equal. *Class III.*—Flitton; Henderson and Milne and Ross (B.), equal; Cunningham and Jerry and McMeekin and Troop, equal; Ewart and Hall (J. S.) and McFarlane and Whyte and Winter, equal; Goodman and Grant and McDougall and Perrault, equal; Gentles; Boswell and Lawrence and Stewart (G. L.), equal; Harkom and Kennedy (H.) and Kennedy (H. S.) and Kingston and Orkin and Taylor (E. A.), equal; Marshall and Scott (J.) and Stanley, equal; Gilmore and Henry and Morris and Mullin, equal; Cronk and Ryley and Stewart (C. A.) and Tyler, equal; Cox and Hughes and Notman and Stavert, equal; Carreau and McLean (J. R.) and Page and Perry, equal; Copland and McLennan (R. P.) and Sullivan and Traversy, equal; Dempster and Duggan

and Garrow and Scantlebury, equal; Bailey and Charleson and Fullerton and Garden and Layne and Parkins and Patterson (A. E.) and Scott (N. M.), equal; Berrill and Dawson and Earle and Forman and Hyams and Powter and Pulford and Thom (J. B.) equal; Draper and Harding and Ingram and Loudon and Ross (G. W.) and Wall (A. F.), equal.

MECHANICAL DRAWING.

*Third Year* (*Electrical Engineering Course*).—*Class I.*—Schippel; Macleod (D. K.) and Steeves, equal. *Class II.*—Blois; Cook and Kearns, equal; Hutchins and McNiven, equal; Cushing, Salter. *Class III.*—Casey and Prince, equal; Lynch and Mather, equal; Brown and Burr and Reinhardt and Ryan, equal; Cohen, Bolan; McCammon and Wade, equal; Hull.

*Third Year* (*Mechanical Engineering Course*).—*Class I.*—Sterns. *Class II.*—Norris and Weber, equal; Heward and Wheatley, equal; Cummer; Barnes and Davis, equal; Robb, Hayward, Warner, Garth, Sargent. *Class III.*—Starke, Bagshaw; Johnson and Lefebvre, equal; Goode and Hughson and McRae, equal; Boyd (T. B.), Cash; Duggan and Rennoldson, equal.

*Second Year.*—*Class I.*—Cole, Reeder, Skeete, Hebden. *Class II.*—Kirby; Boire and MacRae, equal; Bauset, Baker, Mais, Murphy; Berry and Crewdson, equal; Alexander (W. B.) and Goodwin and Lawrence and Learned, equal; Cameron and Rogers and Thompson (G. H.), equal; Eaton; McLean and Mitchell (W. G.) and Tait, equal; Baily and Mabon, equal; Baridon and Kirkpatrick, equal; Brisbane, Joseph. *Class III.*—Dempster and Gillies (J. J. A.) and Morrow, equal; Eardley-Wilmot; Hample and Hanley and Harvey and Lindsay and Tett, equal; Hooper and Pontbriand and Webb, equal; Clawson and Cunningham and Suckling and Warwick, equal; Grafftey; Bignell and Dodd and Eliasoph, equal; Masson and Wright, equal; Burrow and Lyster and Paterson and Roche, equal; Creaghan; Crossfield and Fitzgerald and Gilchrist and McEvenue, equal; Davies and Leach and McCaghey and Monat and Moseley and Taylor and Tothill and Wilson (C. P.), equal; Davidson (W. J.) and Wilson (W. J.), equal; Kavanagh and Mathewson and Murray and Thompson (G.), equal; Hamer and McDonald (L. M.), equal; Donald; Martin and Roy, equal.

*First Year.*—*Class I.*—Hadley, Garrett, Laing, Stanley. *Class II.*—Coote and Hall (J. S.) and Harding and McFarlane, equal; MacLeod, Winter; Gilmore and Morgan and Scott (A. G.), equal; Draper; Fowler and Hague and Strathy, equal; Forman; Hay and Tyler and Young, equal; Jamieson; Garden and Gillies, equal; Boswell and Ewart, equal; Duggan and Hyams and Mullin and Sandison, equal; Bone and Booker and Layne, equal; Allingham and Cox, equal; Cunningham and Lawrence and Pitts and Scott (W. D.) and Taylor (W. H.), equal; Chalifoux and Coulson and Lionais and McNicoll and Smith, equal; Garrow and Goodman and Grant and McMeekin, equal. *Class III.*—Bull and Chalifour and Notman, equal; Cronk and Davidson and Dawson and Dempster and Jerry and McLennan (R. P.) and Ross (B.), equal; Keeping and Milne and Paisley and Perrault, equal; Kitchener and Osler and Page and Patterson (A. E.), equal; Connors and Creasor and Day and La-Montagne and McDougall and McFadyen and Scantlebury and Sherlock and Stewart ,equal; Carreau and Charleson, equal; Gass and Ross (G. W.) and Waldron, equal; Coleman and Gilbert and

Kinsgton and McLean (J. R.) and Powter and Tracy and Werry, equal; Copland and Marshall and Peck and Pulford and Scott (N. M.) and Taylor (W. L.) and Traversy and Wall (W. C.), equal; Hall (J.) and Henry and Ingersoll and Kennedy (H.) and Kennedy (H. S.) and Millar and Walbank, equal; Coke and Howell, equal; Morris and Pearson and Ryley, equal; Darling and Farrell and Holland and Wall (A. F.), equal; Jackson and Schneider and Stavert and Summerskill and Thom, equal; Parkins; Barlow and Brown (T. A.), equal; Fricker and Kilpatrick, equal; Guignard; Loudon and Orkin and Sullivan and Waterous, equal.

MECHANICAL ENGINEERING.

*Fourth Year* (*Mechanical Engineering Course*).—*Class I.*—Linagh, Gnaedinger. *Class II.*—Briercliffe, Hargraft, Robertson. *Class III.*—Brotherhood, Skelton, Webb.

*Third Year* (*Chemical, Civil, Electrical, Metallurgical and Mining Engineering Courses*).—*Class I.*—Macleod (D. K.) and Tebbutt, equal; Cook, Randolph, McEwen. *Class II.*—McLeod (D. L.) and Wade, equal; Steeves and Stroud, equal; Blois and Calkins and Gass, equal; Boyd (W. W.) and Cohen and Schippel, equal; Mais and Ryan, equal; McIntyre; Reinhardt and Roy, equal; Cumming, McLellan, Cooper; Billington and Futterer, equal; McNiven, DesRosiers (A.), Elderkin, Hanington, Jelly. *Class III.*—Hugh-Jones, Kearns; Darling and McCammon and McMahon, equal; Chaffey and Gall and Lynch (T. L.), equal; Casey and McGannon, equal; Hutchins and Page, equal; Cushing and Dixon and Legris (J. A.), equal; Burr, Bell, Peden; Armstrong and Downes, equal; Bolan and MacKinnon and Vallance, equal; Brown and Lesage and Prince, equal; Biddulph and Gnaedinger and Veilleux, equal; Bisson and Gartshore and MacDermot, equal; Hall and Henry, equal.

*Third Year* (*Mechanical Engineering Course*).—*Class I.*—Duggan. *Class II.*—Cash, Goode, Davis, Sterns, Hayward. *Class III.*—Warner; Bagshaw and Lefebvre, equal; Robb, Cummer, Heward, Norris, Garth, Weber, Wheatley, Boyd (T. B.).

MECHANICS OF MACHINES.

*Fourth Year.*—*Class I.*—Linagh, Gnaedinger. *Class II.*—Webb, Briercliffe. *Class III.*—Skelton, Hargraft, Brotherhood, Scott (A. N.).

*Third Year.*—*Class I.*—Macleod (D. K.); Davis and Duggan, equal. *Class II.*—Lefebvre and Norris, equal; Schippel and Sterns, equal; Cook and McNiven, equal; Goode, Boyd (T. B.). *Class III.*—Cummer and Kearns, equal; Ryan; Blois and Hutchins, equal; Cushing and Hayward, equal; Wade and Weber, equal; Starke, Barnes, Robb; Bagshaw and Steeves, equal; Burr and Heward, equal; Cohen; Cash and Gall and Reinhardt and Wheatley, equal; Sargent; Dixon and McCammon and McRae and Prince and Warner, equal.

*Second Year.*—*Class I.*—Murphy; Coote and Mabon, equal; Crewdson, Macleod, MacRae, Reeder, Dodd, Murray. *Class II.*—Tothill; Eardley-Wilmot and Jackson and Joseph, equal; Chambers, Boire; Davidson (W. J.) and Harvey and Thompson (G. H.), equal; Bailey and Burrow and Cunningham, equal; Wright; Carson and Chave and Mais and Rogers, equal; Pullen; Crossfield and Kirby, equal; Eaton and Kavanagh and Kirkpatrick and Lindsay, equal; Baker and Dempster and Fitzgerald, equal; Lyster; Berry and Learned and Skeete, equal; Baridon and Hamer and Mitchell

(W. G.) and Paterson, equal; Lawrence and Lyche and Tait, equal. *Class III.*—Bignell and Tett, equal; Cameron, Hanley, Stone; Mathewson and Roche, equal; Egerton and Suckling, equal; Cole and Webb and Wilson (C. P.), equal; Davies and Hample and Hebden and Martin, equal; Wilson (W. J.); McDonald (L. M.) and Masson, equal; Morrow; Grafftey and LaForest, equal; McEvenue; Alexander (E. D.) and Eliasoph and McBeath, equal; Cooke and O'Brien and Sawers and Underhill, equal; Hooper and Macdonald (N. M.), equal; Bell (H. G.) and Creaghan and Ludington and Pitts and Taylor and Warwick, equal.

METALLURGICAL CALCULATIONS.

*Third Year.—Class I.*—Randolph, McLeod (D. L.). *Class II.*—None. *Class III.*—Hall, McMahon, Gnaedinger.

METALLURGY.

*Fourth Year (Metallurgy Course).—Class I.*—Porter. *Class II.*—Non *Class III*—None.

*Fourth Year (Mining Engineering Course—Options (a) and (c)).—Class I.*—Galloway, Wünsch; de Hart and Porter, equal. *Class II.*—Ross (G.), Fox. *Class III.*—Koch.

*Fourth Year (Mining Engineering Course—Option (b)).—Class I.*—Eldridge, Murray. *Class II.*—Evans; Oughtred and Willis (F. S.), equal; Gillies, Boyd (G. M.). *Class III.*—Fortier and Holland, equal; Stevenson and White (J. A. G.), equal.

*Third Year.—Class I.*—Tebbutt, McLeod (D. L.), Cumming. *Class II.*—Boyd (W. W.), Hanington; de Hart and Futterer, equal; Billington, Clarke, McIntyre, Wilson, MacKintosh; Chaffey and Gass and Hall and Randolph, equal; Elderkin and Gnaedinger and May, equal; Jordan. *Class III.*—Cooper, Stroud; Biddulph and Gorman and Hyman, equal; McMahon, Roy, Matheson, Skelton (R.); Gougeon and McLeod (C. K.), equal; Shaw, Bell, Legris (J. A.), Austin.

METALLURGICAL MACHINERY AND DESIGN.

*Fourth Year.—Class I.*—Porter. *Class II.*—None. *Class III.*—None.

MINERALOGY.

*Third Year.—Class I.*—McLeod (D. L.), Gass; Chaffey and de Hart, equal; Boyd (W. W.) and Tebbutt, equal; Futterer, Cooper, Elderkin. *Class II.*—Shaw, Randolph; Hall and Wilson, equal; Clarke, Hanington; McIntyre and Stroud, equal; Austin, Bell, May, Jordan; Billington and Gartshore, equal. *Class III.*—Gorman, McMahon; McDougald and Mackintosh, equal; Legris (J. A.) and Skelton (R.), equal; McDougall; Biddulph and Lynch (T. L.), equal; Clawson and Gnaedinger, equal; Paddon, McLeod (C. K.), Warburton.

MINING ENGINEERING.

*Fourth Year.—Class I.*—Galloway, Wünsch. *Class II.*—de Hart and Murray, equal; Ross (G.), Eldridge, Oughtred, Evans, Gillies. *Class III.*—Koch, Willis (F. S.), Stevenson, Boyd (G. M.), Fortier White (J. A. G.).

*Third Year.*—*Class I.*—Hanington, Stroud, Roy, Boyd (W. W.), Randolph, Bell. *Class II.*—May, Gass; Billington and Chaffey, equal; Gorman, Futterer, Cooper, Cumming, McLeod (D. L.). *Class III.*—Legris (J. A.), Gnaedinger, Matheson, Warburton, Hall, Wilson, Elderkin, Padden, McMahon.

MINING FIELDWORK.

*Fourth Year.*—*Class I.*—de Hart, Galloway, Robinson. *Class II.*—Eldridge and Evans and Murray, equal; Oughtred, Koch; Fortier and Willis (F. S.), equal; Gillies; Ross (G.) and Wünsch, equal. *Class III.*—White (J. A. G.), Stevenson, Holland.

MINING MACHINERY AND DESIGN.

*Fourth Year* (*Options* (*a*) *and* (*c*)).—*Class I.*—de Hart and Galloway, equal. *Class II.*—Wünsch, Ross (G.). *Class III.*—Koch.

*Fourth Year* (*Option* (*b*)).—*Class I.*—Murray. *Class II.*—Eldridge and Oughtred, equal; Willis (F. S.), Fortier; Evans and Gillies, equal; Boyd (G. M.) and Stevenson, equal. *Class III.*—White (J. A. G.), Holland.

MUNICIPAL ENGINEERING.

*Fourth Year.*—*Class I.*—Carnwath, Earle. *Class II.*—Ray, O'Leary, Willis (G. C.); Boast and Dodd and Macdonald (J. J.), equal; Wilson (R. S. L.), Pope; Hooper and Underhill, equal; Anderson (A. A.) and Cram, equal; Collier and Johnston and Parker, equal; Fraser and Goodeve, equal; Nares (B. L.). *Class III.*—Child; Clark and Whyte (H. E.), equal; Watson; Wilson (C. St. J.) and Young, equal; Bacon and Brydone-Jack, equal; Richardson (C. E.), Bennet, Walcott; de Gruchy and Wood (D. F.), equal; Kelly and Wood (J. R.), equal; Duguid, Oliver; Elliott and Thompson, equal.

*Third Year.*—*Class I.*—None. *Class II.*—Morkill, McEwen, Staveley, McGannon. *Class III.*—Jelly; McLellan and Peden, equal; Henry and Mackinnon, equal; Calkins, Bisson; DesRosiers (A.) and Edwards, equal; Cassels; Armstrong and Robertson, equal; Traversy.

ORE DEPOSITS AND ECONOMIC GEOLOGY.

*Fourth Year.*—*Class I.*—Murray, de Hart, Galloway, Evans, Wünsch. *Class II.*—Oughtred, Ross (G.), Eldridge. *Class III.*—Macaulay, Koch, Stevenson, Gillies, Boyd (G. M.); Fox and Holland, equal; Porter and White (J. A. G.), equal.

ORE DRESSING AND MILLING.

*Fourth Year.*—*Class I.*—Murray, Wünsch, Galloway. *Class II.*—deHart, Evans, Ross (G.), Eldridge, Oughtred, Holland, Robinson, Willis (F. S.). *Class III.*—Koch, Gillies; Boyd (G. M.) and Fortier, equal; Stevenson and White (J. A. G.), equal.

*Third Year.*—*Class I.*—Cumming; Billington and Stroud, equal. *Class II.*—Cooper; Boyd (W. W.) and May, equal; Gnaedinger and Roy, equal; Chaffey, Gass; McMahon and Wilson, equal; Futterer and

McLeod (D. L.), equal; Paddon; Gorman and Matheson, equal; Bell and Legris (J. A.) and Randolph, equal. *Class III.*—Elderkin and Mackintosh, equal; Hall; McDougall and Warburton, equal; Hanington, Clarke.

ORGANISATION AND ACCOUNTING.

*Third Year.—Class I.*—None. *Class II.*—Pullen, Nichols. *Class III.*—Forman and Woodyatt, equal.

PASSENGER SERVICE.

*Fourth Year.—Class I.*—Morkill, Smith (W. R.); Kingsley and McLeod, equal. *Class II.*—Forbes. *Class III.*—None.

PETROGRAPHY ADVANCED.

*Fourth Year.—Class I.*—Wünsch, Galloway. *Class II.*—Fox, Ross (G.). *Class III.*—None.

PETROGRAPHY AND LABORATORY.

*Fourth Year.—Class I.*—Wünsch, Murray, Eldridge; Galloway and Ross (G.), equal. *Class II.*—Koch, Fox, de Hart, Evans, Stevenson, Boyd (G. M.), Oughtred, Gillies. *Class III.*—White (J. A. G.), Willis (F. S.), Fortier, Holland, Hasbrouck.

PHYSICAL GEOGRAPHY AND CLIMATOLOGY.

*Fourth Year.—Class I.*—None. *Class II.*—McLeod, Morkill, Kingsley. *Class III.*—Forbes, Smith (W. R.).

RAILWAY ECONOMICS.

*Fourth Year.—Class I.*—None. *Class II.*—Forbes, McLeod. *Class III.*—Morkill, Kingsley, Smith (W. R.).

RAILWAY ENGINEERING.

(CIVIL ENGINEERING AND RAILWAYS COURSES.)

*Fourth Year.—Class I.*—None. *Class II.*—Anderson (A. A.); Child and Earle, equal; Johnston; Forman and McLeod, equal; Hooper, Fraser. *Class III.*—Macdonald (J. J.); Bacon and Boast and Carnwath, equal; Christie and Lumsden and Nares (B. L.) and Smith (W. R.), equal; Dodd, Oliver, Pope; Wilson (C. St. J.) and Wilson (R. S. L.) and Young, equal; Clark and Forbes and Ray and Willis (G. C.), equal; Kelly and Kingsley and Underhill, equal; Watson, Planche; O'Leary and Wood (J. R.), equal; Bennet and Brydone-Jack and Collier and Cram and Goodeve and Parker and Richardson (C. E.) and Thompson and Whyte (H. E.) and Wood (D. F.), equal.

*Third Year.—Class I.*—None. *Class II.*—Calkins, Hugh-Jones, McEwen; DesRosiers (A.) and Henry and Jelly, equal. *Class III.*—Bisson and Cassels, equal; Armstrong, Mackinnon, McLellan; McGannon and Whittall, equal; Bolton and Fay and MacDermot and Page and Woodyatt, equal.

RAILWAY LAW.

*Fourth Year.—Class I.*—McLeod. *Class II.*—Morkill and Smith (W. R.), equal; Kingsley. *Class III.*—None.

RAILWAY MECHANICAL ENGINEERING.

*Fourth Year.—Class I.*—McLeod. *Classs II.*—None. *Class III.*—Forbes and Kingsley, equal; Bolton, Smith (W. R.).

*Third Year.—Class I.*—None. *Class II.*—Nichols. *Class III.*—Woodyatt.

RAILWAY OPERATION.

*Fourth Year.—Class I.*—McLeod and Morkill, equal; Forbes. *Class II.*—Kingsley. *Class III.*—Smith (W. R.).

REINFORCED CONCRETE.

*Fourth Year.—Class I.*—Macdonald (J. J.), de Gruchy; Earle and Willis (G. C.), equal; Carnwath, Dodd, Bennet, Parker. *Class II.*—Underhill, O'Leary; Bacon and Whyte (H. E.), equal; Nares (B. L.) and Wood (D. F.), equal; Boast, Wilson (C. St. J.), Cram, Hooper, Watson, Wilson (R. S. L.). *Class III.*—Clark; Johnston and Pope, equal; Kelly, Anderson (S. C.); Goodeve and Planche and Walcott, equal; Brydone-Jack and Young, equal; Ray, Wood (J. R.), Thompson; Collier and Fraser and Richardson (C. E.), equal; Anderson (A. A.), Oliver, Duguid.

SHOP ORGANISATION.

*Fourth Year.—Class I.*—Linagh, Brotherhood. *Class II.*—Gnaedinger; Briercliffe and Hargraft, equal. *Class III.*—Webb, Scott (A. N.), Skelton.

SHOPWORK.

*Fourth Year.—Class I.*—Linagh, Gnaedinger, Scott (A.N.), Hargraft. *Class II.*—Brotherhood; Briercliffe and Skelton, equal; Webb, Campbell. *Class III.*—None.

*Third Year.—Class I.*—Warner, Cummer; Hughson and Johnson and Sterns, equal; Norris; Lefebvre and Weber, equal; Heward and McRae and Robb and Starke, equal. *Class II.*—Goode; Duggan and Hayward and Wheatley, equal; Boyd (T. B.) and Sargent, equal; Barnes, Beauvais, Cash; Davis and Rennoldson and Turnbull, equal; Duffield, Lapp. *Class III.*—None.

*Second Year.—Class I.*—Crewdson, Reeder, Murphy. *Class II.*—Learned, McRae, Tait; Baily and Thompson (G. H.), equal; Chambers and Cunningham and Hample and Lyster, equal; Eardley-Wilmot, Dodd; Boire and Cameron and Joseph and Lawrence, equal; Cole and Mitchell (W. G.), equal; Wright; Cumming and Hebden, equal; Harvey and Kirkpatrick and Lindsay and Roy, equal; Kirby and Wilson (C. P.), equal; Burrow and Hooper and Morrow and Webb, equal. *Class III.*—Eaton and Mabon and Paterson and Skeete, equal; Dempster and Leach and Mais and Pickel, equal; Gilchrist; Crossfield and Jackson, equal; Bignell

and Davidson (W. J.) and Donald and Kavanagh and Mathewson, equal; Baridon and Davies and Tett, equal; Ludington, Hamer; McCuaig and McEvenue and Masson, equal.

*First Year.—Class I.*—MacLeod; Garrett and Garrow, equal. *Class II.*—Robertson and Winter, equal; Strathy; Allingham and Hadley and Stewart, equal; Fowler and Ingersoll and Jamieson and Layne and Scott (A. G.), equal; Grant and McFarlane and Marshall and Traversy, equal; Coote; Bone and Hay and Tyler, equal; Creasor and Laing and Stanley and Waldron, equal; Bailey and Day and Harkom and Jerry and Kennedy (H.) and Pitts, equal; Boswell and Cunningham and Lawrence and Scantlebury and Sherlock, equal; Coke and Draper and Kennedy (H. S.) and Page, equal; Booker and Holland, equal; Morgan and Scott (W. D.), equal; Charleson and Fricker and Gilmore and Hague and Keeping and Sandison and Werry, equal; Best and Chalifoux and Ewart and Gass and Gentles and Guignard and McDougall and Paisley and Ross (B.), equal; Davignon and Duggan and Gardner and Osler and Thom (J. B.), equal; Goodman and Hall (J. S.) and Loudon and Ryley and Williamson, equal; Farrell and Gilbert and Henry and McMeekin and Milne and Pulford, equal; Chalifour and Dempster and Hyams and Mullin, equal. *Class III.*—Bull and Coulson and Darling and McLaurin and McLennan (R. P.) and McNicoll and Morris and Stavert, equal; Copland and Cox and Millar and Peck and Powter and Scott (N. M.), equal; Todd and Tracy, equal; Orkin and Pearson and Ross (G. W.) and Summerskill, equal; Hall (J.) and Kingston and McFadyen and Smith, equal;Notman and Parkins and Wall (W. C.), equal; Carreau and Coleman and Forman, equal; Lionais and Patterson (A. E.) and Troop and Walbank, equal; Davidson and Perrault and Sullivan, equal; Kilpatrick; Dawson and Thompson, equal; McAvity and Schneider, equal.

SHORTHAND.

*Fourth Year.—Class I.*—McLeod; Kingsley and Morkill, equal. *Class II.* Smith (W. R.). *Class III.*—Forbes.

*Third Year.—Class I.*—Pullen. *Class II.*—Nichols, Forman. *Class III.* None.

SIGNALS.

*Fourth Year.—Class I.*—Morkill. *Class II.*—McLeod. *Class III.*—Forbes, Kingsley, Smith (W. R.).

STRENGTH OF MATERIALS.

*Third Year.—Class I.*—Macleod (D. K.), McLeod (D. L.), Norris, McEwen, DesRosiers (A.), Tebbutt; Davis and Schippel, equal. *Class II.*—Cumming, Calkins, Duggan, Heward, Steeves; Elderkin and Jelly, equal; Boyd (W. W.) and Chaffey, equal; Blois and McNiven, equal; Peden; Cook and Sterns, equal; Futterer. *Class III.*—Cooper and Randolph and Whittall, equal; Cohen and McIntyre and Stroud, equal; Cassels and Hugh-Jones and Ryan, equal; May and Robertson and Wade, equal; McLellan, Hughson; Barnes and Casey and Hutchins and Robb and Weber, equal; McGannon and Prince equal; Connolley and Cushing and Kearns

and MacDermot, equal; Bisson; Bagshaw and Cummer and Downes and Hall, equal; Gorman and Lefebvre and Roy and Veilleux, equal; Vallance; Gear and Hayward and Henry, equal; Gass and Gohier and McCammon and Traversy, equal; McDougall and MacKinnon and Scott and Wheatley, equal; Armstrong and Bell and Cash and Darling and Dixon and Edwards and Gall and Gartshore and Goode and McMahon and Reinhardt and Sargent, equal.

STRUCTURAL ENGINEERING.

*Third Year.—Class I.*—Tebbutt, McEwen, Sterns, Duggan; McGannon and Randolph, equal. *Class II.*—DesRosiers (A.), Davis; Barnes and Gass and Henry and Norris, equal; Bisson and Heward, equal; Chaffey and Lefebvre and McLellan and Roy, equal; Calkins and Hayward and McIntyre, equal; Peden; Futterer and McLeod (D.L.) and Robertson and Stroud, equal; Armstrong and Cooper, equal; Cassels and Robb and Staveley, equal; Bagshaw and Elderkin and Jelly, equal. *Class III.*—Cummer and Gnaedinger and Legris (J. A.), equal; Cumming and MacKinnon and Wheatley, equal; Goode and Hugh-Jones, equal; Boyd (T. B.) and Cash, equal; Edwards and Garth and Hughson, equal; Billington and Hanington and McRae and Page and Whittall, equal; Gorman and MacDermot, equal; Bell and Boyd (W. W.) and Downes and May, equal; Gear; Lesage and Traversy and Vallance, equal; Warner, Weber, Starke.

SUMMER ESSAY.

*Fourth Year* (*Chemistry and Chemical Engineering Courses*).—*Class I.*—Walker. *Class II.*—None. *Class III.*—None.

*Fourth Year* (*Civil Engineering Course*).—*Class I.*—Macdonald (J.J.), Nares (B. L.); Clark and Willis (G. C.), equal; Bacon and Collier and Dodd and Johnston and Oliver, equal. *Class II.*—Carnwath and Cram and Wood (J. R.), equal; Underhill, Goodeve, Planche; Bennet and Whyte (H.E.), equal; Child, Richardson (C. E.); Anderson (A. A.) and de Gruchy and Earle and Pope and Walcott and Wilson (R. S. L.), equal; Duguid and Fraser and Kelly and Parker and Wilson (C. St. J.), equal. *Class III.*—Brydone-Jack; Wood (D. F.) and Young, equal; Ray and Thompson, equal; O'Leary, Boast.

*Fourth Year* (*Electrical Engineering Course*).—*Class I.*—Scrivener and Staveley, equal; Gregory and Hudson and Kearney, equal; Motyer, Falcke, Millican. *Class II.*—Alward; Murphy and Wilson (T. E.), equal; Pengelley, Ovalle; Archibald and Wood (H. W.), equal; Allen; Callander and Davis, equal; Ivey and Smith (W. P.), equal; Dennison and Irwin ,equal. *Class III.*—None.

*Fourth Year* (*Mechanical Engineering Course*).—*Class I.*—None. *Class II.*—Linagh; Briercliffe and Webb, equal. *Class III.*—Hargraft.

*Fourth Year* (*Metallurgy Course*).—*Class I.*—Porter. *Class II.*—None. *Class III.*—LaForest.

*Fourth Year* (*Mining Engineering Course*).—*Class I.*—Eldridge, Galloway; de Hart and Murray, equal. *Class II.*—Wünsch; Gillies and Willis (F. S.), equal; Evans and Fortier, equal; Oughtred and Ross (G.), equal; Robinson; Koch and Stevenson, equal. *Class III.*—Gartshore and White (J. A. G.), equal; Fox, Boyd (G. M.).

*Fourth Year* (*Railways Course*).—*Class I.*—Morkill. *Class II.*—Kingsley, Smith (W. R.). *Class III.*—None.

*Third Year* (*Chemistry and Chemical Engineering Courses*).—*Class I.*—Hyman. *Class II.*—McLeod (C. K.); Shaw and Tebbutt, equal; Biddulph. *Class III.*—None.

*Third Year* (*Civil Engineering Course*).—*Class I.*—MacKinnon, MacDermot; Henry and McLellan and Peden, equal; Cassels and Connolley and Edwards, equal. *Class II.*—Armstrong, DesRosiers (A.), Calkins; Hugh-Jones and Lauder and Lesage and McEwen, equal; Abbott; Nation and Whittall, equal; Norris. *Class III.*—Legris (C. E.) and Robertson, equal; Fay and Page, equal; Vallance, Gohier.

*Third Year* (*Electrical Engineering Course*).—*Class I.*—Macleod (D. K.) and Mather, equal; Ryan, Hutchins. *Class II.*—Cohen and McNiven, equal; Kearns; Steeves and Wade, equal; McCammon and Morrisey, equal; Dixon and McGregor, equal; Bolan and Cushing, equal; Brown. *Class III.*—Lynch (J. A.), Darling; Casey and Reinhardt, equal.

*Third Year* (*Mechanical Engineering Course*).—*Class I.*—Sterns, McRae. *Class II.*—Duggan and Sargent, equal; Bagshaw and Davis and Hayward, equal; Cash and Goode and Wheatley, equal; Barnes and Lapp and Robb and Weber, equal. *Class III.*—Cummer and Heward and Kirby, equal; Hughson and Johnson and Rennoldson and Rolland and Starke and Warner, equal.

*Third Year* (*Metallurgy Course*).—*Class I.*—Gnaedinger, Randolph; Hall and Mackintosh and McLeod (D. L.) and McMahon, equal. *Class III.*—None.

*Third Year* (*Mining Engineering Course*).—*Class I.*—Futterer, Bell. *Class II.*—Gass and Hanington, equal; Stroud. *Class III.*—Boyd (W. W.); Cooper and Legris (J. A.), equal; May, Chaffey, Clawson.

*Third Year* (*Railways Course*).—*Class I.*—None. *Class II.*—Bolton. *Class III.*—None.

SUMMER READING.

*Fourth Year.*—*Class I.*—Christie. *Class II.*—McLeod and Watson, equal; Boyd (L. C.) and Hawkins, equal; Macaulay, Elliott. *Class III.*—Brotherhood and Forbes, equal; MacDonald (G. H.) and Richardson (A. I.), equal; Hooper.

*Third Year.*—*Class I.*—None. *Class II.*—DesRosiers (I.), Blois, Sproule; Cook and Elderkin and McDougall and Wilson, equal; Jelly; McGannon and Schippel and Veilleux and Warburton, equal; Burr and King and Roy, equal. *Class III.*—Garth; Gorman and Lefebvre, equal; Campbell (K. M.) and Clarke and Downes and Gnaedinger and Salter, equal; Richards, Demers; Barnaby and Traversy, equal; Austin and Boyd (T. B.) and Lockhart and McDougald, equal.

*Second Year.*—*Class I.*—Crossfield, Harrison ,Wright, Joseph, Kirkpatrick. *Class II.*—Berry; Baker and Cole, equal; Lindsay; Monat and Morrow, equal; Baily and Boire and Murray, equal; Dodd, Bell; Davidson (W. J.) and Harvey and Kavanagh and McEvenue and Nicholson, equal; Crewdson and Tait, equal; Hamer and Murphy, equal; Mais, Alexander (E. D.), Hooper; Taylor and Tothill, equal. *Class III.*—Grafftey and Hebden and Webb, equal; Dempster, Wilson (W. G.), MacRae; Leach and Mathewson and Paterson and Thompson (G.), equal; Chambers and Davies and

Eaton and McDonald (L. M.) and Skeete, equal; Baridon; Eardley-Wilmot and Egerton and Gilchrist, equal; McConkey; Burrow and Cash and Eliasoph and Lyster and Reeder, equal; Hample and McBeath, equal; LaForest and Suckling, equal; Macdonald (N. M.); Barwick and Blair, equal; Lynch and Pullen, equal; Warwick, Learned; Adam and Berrill and Dougall and Hanley and Mitchell (W.G.) and Ryan, equal.

SUMMER SCHOOL.

*Third Year* (*Chemistry*).—*Class I.*—Tebbutt. *Class II.*—Gnaedinger, Biddulph, Bell, Hall, Randolph. *Class III.*—McMahon, McLeod (D. L.); McGannon and McLeod (C. K.), equal.

(*Mechanical Drawing*).—*Class I.*—Smith (B. O.), Schippel, Sutherland; Norris and Robb and Sterns, equal; McRae, Heward. *Class II.*—Boyd (T. B.); Duggan and Hutchins, equal; Johnson and Kearns, equal; Casey; Hughson and Sargent, equal; Mather; Cummer and Prince, equal; Steeves; Cook and Warner, equal; Burr, Davis, Weber; Starke and Wheatley, equal; Angus and Redpath, equal. *Class III.*—Abbott and Goode and Ryan, equal; Rolland and Turnbull, equal; Lefebvre, Reinhardt; Hayward and Rennoldson, equal; Kirby (S. S.), Barnes, Duffield; McCammon and Thomas, equal; Lapp.

(*Physics*).—*Class I.*—Ovalle, Davis, Schippel. *ClassII.*—Hayward, Sterns, Norris, Ryan, Barnes, Weber, Cook; Casey and Steeves, equal; Burr and Cummer, equal. *Class III.*—Hutchins; Duggan and Heward, equal; Gall and Lapp and Lefebvre, equal; Johnson and Kearns and McRae and Reinhardt and Sargent, equal; Cash, Hughson, Beauvais, Goode; Angus and Boyd (T. B.), equal; Turnbull, Bolan; McCammon and Wheatley, equal; Smith and Starke and Warner, equal.

(*Shopwork*).—*Class I.*—Smith and Sterns, equal; Schippel, Sutherland. *Class II.*—Steeves, McRae, Davis; Cash and Robb, equal; Cummer; Boyd (T. B.) and Cooke and Hayward, equal; Hutchins and Johnson, equal; Angus and Heward and Warner, equal; Redpath; Casey and Hughson, equal; Mather and Ryan and Sargent, equal; Lefebvre; Burr and Goode, equal; Wheatley; Abbott and Barnes and Lynch (J. A.) and Thomas, equal. *Class III.*—Turnbull; Duffield and Kearns and Reinhardt, equal; Duggan and Norris, equal; Bolan, Weber, Hull, Lapp; Brown and Hargraft and Starke, equal; Kirby (S. S.).

SURVEYING.

*Third Year* (*Civil Engineering Course*).—*Class I.*—None. *Class II.*—McEwen; DesRosiers (A.) and Morkill, equal; Calkins. *Class III.* Jelly, McGannon; Henry and Peden, equal; MacDermot and Traversy, equal; Cassels, Downes, MacKinnon; Page and Robertson and Veilleux, equal;Hugh-Jones, McLellan; Bisson and Lesage and Whittall, equal.

*Third Year* (*Mining Engineering Course*).—*Class I.*—None. *Class II.*—Stroud, Boyd, Chaffey, Elderkin, Cooper; Cumming and May, equal; Futterer. *Class III.*—Matheson, Legris, Roy, Gass, Bell; Billington and Wilson, equal; Warburton; Hanington and McDougall and Paddon, equal.

*Second Year.—Class I.*—Jackson, MacRae; Chave and Mabon, equal. *Class II.*—Crewdson, Dodd, Reeder, Joseph, Learned, Cameron; Lyster and Mais and Murphy, equal; Eardley-Wilmot, Baily; Cole and Mitchell (W. G.), equal; Kavanagh and Kirkpatrick and Tait, equal; Harvey and Lindsay, equal; Crossfield and Eaton and Sawers, equal; Armytage. *Class III.*—Thompson (G. H.) and Tothill, equal; Baker; Burrow and Fitzgerald, equal; Chambers and Cunningham and Dempster and Hooper and McDonald (L. M.) and Webb, equal; Berry and Eliasoph and Hamer and Kirby and Tett, equal; Gilchrist and Underhill, equal; Alexander (E. D.) and McEvenue and Morrow and Murray, equal; Bell and Goodwin and Monat and Price, equal; LaForest and Martin, equal; Lawrence; Bignell and Donald and McConkey and Wright, equal; Hample and Pitts, equal; Baridon and Brisbane and Grafftey and Hanley, equal; Barwick and Leach, equal; Lyche and Paterson and Roche and Rogers and Wilson (W. J.), equal; Creaghan and Mathewson and O'Donnell and Roy and Skeete and Stone and Suckling, equal.

SURVEYING FIELDWORK.

*Third Year.—Class I.*—Henry; DesRosiers (A.) and Cassels, equal. *Class II.*—Boyd (W. W.), Futterer; McEwen and McGannon, equal; Armstrong and Davis, equal; Abbott and Edwards and McKinnon (D. A.) and Robertson (C.), equal; Connolley and Fay, equal; Hugh-Jones; Chaffey and Finnie and McNiven, equal; May; Calkins and Matheson, equal; Bolton and Nation and Stroud, equal; Traversy; Masson and Page and Pitts and Vallance and Warburton, equal; Christie and Jelly and Whittall, equal; Lauder and MacDermot and Wilson (W. B.), equal. *Class III.*—McLellan and Veilleux, equal; Paddon and Pullen and Roy, equal; Bell and Gear, equal; Peden; Downes and Gohier, equal.

*Second Year.—Class I.*—Cole; Cameron and Mabon and Reeder, equal. *Class II.*—Cumming, Gordon, McCaghey; Davidson (D. A. L.) and Donald and Rogers, equal; Berry and Chambers and Crossfield and McConkey and McEvenue and Thompson (G. H.), equal; McLeod (K. M.); Lindsay and MacRae, equal; Crewdson and Grafftey, equal; Jackson and Kirkpatrick and McLean, equal; Bignell and Eardley-Wilmot and Hebden and McCuaig, equal; Baridon and Eaton and Suckling and Wilson (W. J.) and Wright, equal; Baily and Cooke and Mais and McDonald (L. M.) and Reid (J. W), equal; Jaques; Barwick and Cunningham and Dodd and Egerton and Gilchrist and Harvey and Joseph and Murphy, equal; Goodwin and Kirby and Taylor and Tett, equal; Hanley and Mathewson (S. J.) and Murray and Patterson, equal; Dalton and McBeath and Martin and Monat and Morrow, equal; Buckman and Fyles and Hample and Roche and Ryan, equal. *Class III.*—Alexander (W. B.); Burrow and Hamer and O'Donnell and Pontbriand and Tothill, equal; Cloran and Eliasoph and Leach and Ludington and Lyster, equal; Davies and Learned and Mitchell (W. G.), equal; Fitzgerald and Masson (W. G.) and Tait, equal; Boire and Doyon, equal; Berrill and Boyd (G. C.) and Duval (L.) and Hooper and Ouimet and Warwick, equal; Dempster and Dixon and Macdonald (N. M.) and Price and Thompson (G.), equal; Brisbane and Wilson (C. P.), equal; Cooper, Thom (G. O.), Harrison, Morton; Kavanagh and Lovell, equal; Creaghan.

TELEGRAPHY.

*Fourth Year.—Class I.*—Kingsley. *Class II.*—Morkill, Forbes, McLeod. *Class III.*—Smith (W. R.).

*Third Year.—Class I.*—None. *Class II.*—Forman, Pullen. *Class III.*—None.

THEORY OF STRUCTURES.

*Fourth Year.—Class I.*—Earle; Macdonald (J. J.) and Whyte (H. E.), equal. *Class II.*—Carnwath and Dodd, equal; Parker, Willis (G. C.), Wood (D. F.), Wilson (C. St. J.); Pope and Underhill, equal; Bennet and Boast and Goodeve, equal; de Gruchy; Anderson (A. A.) and Bacon and Brydone-Jack, equal. *Class III.*—Hooper, Fraser; Nares (B. L.) and Wilson (R. S. L.), equal; Anderson (S. C.), Cram, Watson; Johnston and O'Leary and Oliver, equal; Clark and Planche and Walcott, equal; Ray; Child and Richardson (C. E.), equal; Collier; Kelly and Wood (J. R.), equal.

THERMODYNAMICS.

*Fourth Year (Electrical Engineering Course).—Class I.*—Gregory, Kearney, Archibald. *Class II.*—Alward, Allen; Dennison and Millican, equal; Motyer, Scott (R. W.), Staveley. *Class III.*—Falcke; Ivey and Scrivener, equal; Wilson (T. E.), Ovalle, Murphy, Irwin; Callander and Gall and Nares (H. G.) and Ross (A. C.), equal.

*Fourth Year (Mechanical Engineering Course).—Class I.*—Linagh. *Class II.*—Briercliffe. *Class III.*—Hargraft and Robertson, equal; Gnaedinger.

*Third Year.—Class I.*—Duggan, Robb, Davis. *Class II.*—Hayward and Norris, equal; Sterns, Barnes, Heward. *Class III.*—Bagshaw, Weber, Cummer; Garth and Goode, equal; Warner, Wheatley.

## McGILL UNIVERSITY COLLEGE OF BRITISH COLUMBIA.

## STANDING IN DRAWING, LABORATORIES AND SHOPWORK.

CHEMISTRY.

*Second Year.—Class I.*—None. *Class II.*—Chave. *Class III.*—Sawers, Carson; Lyche and Underhill, equal; Bell.

FREEHAND DRAWING AND LETTERING.

*First Year.—Class I.*—Flitton. *Class II.*—Taylor, Perry, Muir, McNaughton, Henderson, Hughes, Scott, Whyte; Bell-Irving and Cairnes, equal; Mellish. *Class III.*—Holland, Hodsdon; Earle and Fullerton, equal; Stewart, Ingram, Fisher.

### *LABORATORIES.*

CHEMICAL LABORATORY.

*Second Year.—Class I.*—None. *Class II.*—Chave, Underhill, Carson. *Class III.*—Lyche, Bell, Armytage, Sawers, Draper, Stone.

PHYSICAL LABORATORY.

*Second Year.—Class I.*—None. *Class II.*—Underhill, Chave; Carson and Lyche, equal. *Class III.*—Sawers and Stone, equal; Bell, O'Brien.

*First Year.—Class I.*—Flitton, Taylor. *Class II.*—Hughes and Ingram, equal; Henderson, Perry, Bell-Irving, Scott, Hodsdon. *Class III.*—Muir, Whyte, Mellish, Holland, Fullerton, McNaughton, Fisher, Stewart, Earle.

MAPPING.

*Second Year.—Class I.*—Sawers, Chave. *Class II.*—Carson, Lyche. *Class III.*—Bell; Armytage and Stone, equal; O'Brien, Draper.

MECHANICAL DRAWING.

*Second Year.—Class I.*—None. *Class II.*—Carson, Chave, Lyche, Stone. *Class III.*—Armytage and Sawers, equal; O'Brien, Bell.

*First Year.—Class I.*—Flitton. *Class II.*—Hughes, Henderson, Hodson, Taylor, Perry. *Class III.*—McNaughton and Whyte. equal; Muir, Bell-Irving; Holland and Mellish, equal; Earle and Ingram, equal; Fullerton, Scott, Fisher, Stewart.

SHOPWORK.

*Second Year.—Class I.*—Carson. *Class II.*—Lyche, Chave. *Class III.*—Bell, Armytage, O'Brien, Sawers, Stone.

*First Year.—Class I.*—None. *Class II.*—Hughes, Flitton; Bell-Irving and Henderson and Taylor, equal; Whyte, Hodsdon; Earle and Holland, equal; Muir and Perry, equal. *Class III.*—Muddell, Ingram; McNaughton and Scott, equal; Mellish, Fullerton, Stewart, Fisher.

SURVEYING FIELDWORK.

*Second Year.—Class I.*—Chave. *Class II.*—Sawers, Carson; Armytage and Lyche, equal; Stone. *Class III.*—O'Brien.

# McGill University.

## SESSIONAL EXAMINATIONS, 1910-1911.

## Faculty of Arts.

### PASSES, HONOURS AND PRIZES.

PASSED FOR THE DEGREE OF B.A.

IN HONOURS.

(In alphabetical order).

*First Rank.*

Angus, Henry F.
Bridges, James W.
Clearihue, Joseph B.
Currie, George S.
Dewey, A. Gordon
Dixon, Shirley G.
Grimes, Evie M.
Kerry, John.
King, Alfred N.
Maclean, A. Reginald M.
Macnaughton, Jean L. M.
Maass, Otto
Murchison, Hazel I.
Paterson-Smyth, Marjorie
Schafheitlin, Anna
Tannenbaum, Lawrence
Warburton, Hugh C.
Weir, George

*Second Rank.*

Hammond, Doris, J. S.
Irving, W. Gordon
Lochhead, Allan G.
Scott, Arthur A.

*Third Rank.*

Cook, Geoffrey H.
Newcombe, Edmund F.

PASSED FOR THE DEGREE OF B.A.

IN THE ORDINARY COURSE.

(In order of merit. Students of equal standing are bracketed together.)

*Class I.*

Chandler, Rena F. F.
Wanklyn, Andrew A.
Moyse, Robert E.
Paterson, Edith L.

*Class II.*

Heney, Theodore B.
Lindsay, Gordon } equal.
Williams, Marion F. }
Craig, Evelyn
Browne, A. Gladys
Reid, Florence C.
Bissett, John E.
Olmstead, Helen F.
Gillmor, Daniel P.
Hannah, George K.
Howell, Lucy M.
Knowling, Albert J.
Fletcher, Gilbert H.
Hayden, Mabel G.
Livinson, A. Jacob
Willett, Jane T.
Meadows, Stanley D.
Wilson, Winifred E.
Thomas, Owen J.
Gibbins, Gwynne G.
Armstrong, Thomas E.
Macleod, J. V.
Smith, Margaret A.
MacQueen, Emma H.
Hulburd, Ethel E. } equal.
Selman, Gordon S. }
Ellison, Myra K.
Thompson, A. R.

*Class III.*

Dowd, Norman S.
Cherry, William M. } equal.
Robertson, Mildred H. }
Larivière, Henri A.
Macleod, Hazel E.
Greer, Jemima L. M.
Hill, Anna K.
Boyd, James B.
Letvinoff, Lena
Morris, John F.
VanVliet, Leonora M.
Herschorn, Hyman E.
Davidson, Roy A.
Dixon, Margaret
Beckwith, Harold A.
Rennoldson, David B.

## PASSED FOR THE DEGREE OF BACHELOR OF SCIENCE.

Merrill, Arthur E.

### DOUBLE COURSE STUDENTS IN ARTS AND MEDICINE WHO HAVE QUALIFIED TO OBTAIN THE DEGREE OF B.A.

Digby, Reginald B.
Douglas, H. Townley
Kolber, Joseph

## FOURTH YEAR (GRADUATING CLASS)

### HONOURS.

(Subjects arranged alphabetically.)

#### 1. IN CHEMISTRY.

Maclean, A. Reginald M....First Rank Honours.
Lochhead, Allan G.....Second Rank Honours.

#### 2. CLASSICS.

King, A. Nelson.....First Rank Honours and Chapman Gold Medal.

#### 3. IN THE ENGLISH LANGUAGE AND LITERATURE.

Macnaughton, Jean L. M...First Rank Honours.
Warburton, Hugh C.....First Rank Honours.

#### 4. IN ENGLISH AND FRENCH.

Hammond, Doris J. S.....Second Rank Honors.

#### 5. IN ECONOMICS AND POLITICAL SCIENCE.

Angus, Henry F....} equal, First Rank Honours.
Clearihue, Jos. B...}
Currie, George S....} equal, First Rank Honours.
Dixon, Shirley G...}
Kerry, John.....First Rank Honours.
Tannenbaum, Lawrence....First Rank Honours.
Cook, Geoffrey H.....Third Rank Honours.
Newcombe, Edmund F.....Third Rank Honours.

#### 6. IN HISTORY.

Dewey, A. Gordon.....First Rank Honours.
Weir, George.....First Rank Honours.

#### 7. IN HISTORY AND ENGLISH.

Murchison, Hazel I.....First Rank Honours.
Irving, W. Gordon.....Second Rank Honours.

#### 8. IN LATIH AND FRENCH.

Grimes, Evie M.....First Rank Honours and Silver Medal of the Alliance Francaise.

#### 9. IN MATHEMATICS AND PHYSICS.

Paterson-Smyth, Marjorie..First Rank Honours and Anne Molson Gold Medal.
Maass, Otto.....First Rank Honours.
Scott, Arthur A.....Second Rank Honours.

10. IN MODERN LANGUAGES.

Schafheitlin, Anna.....First Rank Honours and Governor-General's Gold Medal.

11. IN PHILOSOPHY.

Bridges, James W.....First Rank Honours and Special Prize.

FIRST RANK GENERAL STANDING.

*B.A. Course.*

Chandler, Rena F. F.....Special Certificate.
Wanklyn, Andrew A.....Special Certificate.
Moyse, Robert E.....Special Certificate.
Paterson, Edith L.....Special Certificate.

## THIRD YEAR.

### HONOURS.

(Subjects arranged alphabetically.)

1. IN CHEMISTRY.

Couture, A. P.....First Rank Honours.

2. IN CLASSICS.

French, Bertram St. G.....Second Rank Honours.

3. IN THE ENGLISH LANGUAGE AND LITERATURE.

Smith, Harry L.....First Rank Honours.
Longworth, Ethel C.....Second Rank Honours.

4. IN ENGLISH AND FRENCH.

Manny, Louise.....Second Rank Honours.
Braeuer, Mary A. M.....Second Rank Honours.

5. IN ECONOMICS AND POLITICAL SCIENCE.

Babcock, Charles E.....First Rank Honours and First Mackenzie Scholarship.
Going, Margaret Chase.....First Rank Honours and Second Mackenzie Scholarship.
Knatchbull-Hugessen, Adrian.....First Rank Honours.
Pearse, Walter J.....First Rank Honours.
Kert, Isaac.....First Rank Honours.
Mathewson, J. Arthur.....Second Rank Honours.
Chenier, Armand.....Third Rank Honours.

6. IN HEBREW.

McVittie, Thomas J.....First Rank Honours.

7. IN HISTORY AND ENGLISH.

Muir, Alexander D.....First Rank Honours
Brown, Vera L.....First Rank Honours } equal.
Young, W. Harold.....First Rank Honours }
Pennington, Margaret H....Second Rank Honours.
Murray, William E. G.....Second Rank Honours.
McInnis, John L.....Second Rank Honours.
Thomson, Herbert F.....Second Rank Honours.

8. IN LATIN AND FRENCH.

Bennett, Annie J.....Second Rank Honours.

9. IN MATHEMATICS AND PHYSICS.

James, Clarke B.....Second Rank Honours.

10. IN MODERN LANGUAGES.

Gronin, Joseph.....Second Rank Honours.
Harris, Ethelwyn.....Second Rank Honours } equal.
Stewart, Mary A. R.....Second Rank Honours }

11. IN PHILOSOPHY.

Johnson, Herbert L.....Second Rank Honours.
Percival, Walter P.....Second Rank Honours.

## PASSED THE THIRD YEAR EXAMINATIONS.

(1) FOR COURSE LEADING TO B.A.

(Arranged in alphabetical order.)

Allan, Babcock, Bennett, Booth, Boright (*s*), Braeuer, Brown, Budyk, Chenier, Cockfield, Corry ‡(*s*), Couture Davidson, Dumaresq, French, Going, Gordon, Greggs ‡(*s*), Gronin, Harris, Hatcher, Henry, Holland ‡(*s*), James, Johnson, Kert, Knatchbull-Hugessen, Kneeland, Lawrence, Longworth, MacDonald, MacEwen, McInnis, McLaurin (B.), McLaurin (C.), McVittie, Manny, Mathewson (A.), Muddell ‡, Muhlstock, Muir, Murray, Oughtred, Papke‡, Pearse, Pennington, Percival, Quigley (*s*), Ross, Scott, Smith, Stewart, Thomson, Wadleigh, Walker (H. F.) (*s*), Walker (*M.*), Wilkes (*s*), Young, Younger (*L.*), Younger (*M*).

*aegrotant.*—Goldblatt, Robinson.

(2) FOR COURSE LEADING TO B.SC.

Mathewson (W.) (*s*).

(*s*) Supplemental in one subject.
‡ McGill University College of B. C., Vancouver.
†McGill University College of B. C., Victoria.

## SECOND YEAR.

### HONOURS.

#### IN MATHEMATICS.

Miller, Iveson A.....First Rank Honours.
Silver, Benjamin L.....First Rank Honours.
Larivière, Rose de L.....Second Rank Honours.
Reilly, H. Edward.....Third Rank Honours.

### PRIZES.

Fritz, Clara W.....Coster Memorial Prize.
Wilson, Robert J.....Neil Stewart Prize.

### PASSED THE SECOND YEAR EXAMINATIONS.

#### (1) COURSE LEADING TO B.A.

*Class I.*

Macnaughton
Corbett
Bruneau
Chaffey
Fritz
Dewey & Mount & Stewart & Dunbar‡, equal.
Hardy‡
MacSween
Duff
Fisher
Silver
Dale-Harris

*Class II.*

Forster‡
Morrison, M. I.
McGarry
Nicholson and Cairnes‡, equal.
Atkins and Bieler and Adams†, equal.
Reinhardt and Davison‡, equal.
Brown
Hecht
Common
Armstrong
Bridgman
Gilbert‡
Hewlings†
Letvinoff‡ and Caldwell† (*s*), equal.
Bolton‡

(*s*) Supplemental in one subject.
‡ McGill University College of B. C., Vancouver.
† McGill University College of B. C., Victoria.

*Class III.*

Keenleyside‡
Jeakins
Penny
Cameron
Morison (C. K.)
Robinson and Clay‡, equal.
Bradbury
Goldbloom
Maclean
Baldwin‡
Norris† (*s*)
Austin‡ (*s*)
Henry (*s*)
Barrett‡
Wilson (*s*)
Morgan (*s*) and Des Brisay‡ (*s*), equal.
Shanly (*s*)
Wilder (*s*) and Moore† (*s*), equal.
Matheson (*s*)
Sargent‡ (*s*)
Scott (C. O.)‡ (*s*) and McKay‡ and Munro‡ (*s*), equal.
Kirkpatrick‡ (*s*)
Busby‡ (*s*)

ægrotat.—Beattie†

(2) FOR COURSE LEADING TO B.SC.

Reilley

## FIRST YEAR.

### ADVANCED SECTION.

IN MATHEMATICS.

*Class I.*

McCrudden and Meldrum, equal.
Hemming
Holden
Moulton

*Class II.*

Henry
Warshawsky
Macphail

*Class III.*

Rowat
Cushing
Griffith
Taylor (J.)

### PRIZES.

Willis, Helen A. S.....Annie McIntosh Prize.

(*s*) Supplemental in one subject.
‡ McGill University College of B. C., Vancouver.
† McGill University College of B. C., Victoria.

## PASSED THE FIRST YEAR EXAMINATIONS.

### (1) FOR COURSE LEADING TO B.A.

*Class I.*

McCrudden
Bradford
MacKenzie‡
Willis and Fry, equal.
O'Meara†
Vermilyea (A. I.)‡

*Class II.*

Hanington†
Meldrum
Gentles
Rowat
Viner
Wilgress
Wolfenden†
Hay and Scott, equal.
Moulton and Norris†, equal.
Bramley-Moore (*s*)
Buck‡ and Burridge†, equal.
Glendinning
Goldstein (M.) (*s*) and Blair, equal.
Griffith (H. R.)
Chown
Donaghue and Holden, equal.
Cooper

*Class III.*

McNiven (M.)‡
Douglas
Warshawsky
Taylor (J. R.)
Cushing and Ryan† and Severtz†, equal.
Macphail (*s*)
Cousins‡
Reid (G. E.) and Vermilyea (B. B.)‡, equal.
Black and Grimes and Planche, equal.
Brooks (*s*) and Balkwill‡, equal.
Yeo†
Northrop‡
Drost‡ and Appleton‡ (*s*), equal.
Williams
Weston
Bernfield (M.) and Howard and Kittredge, equal.
Jenkins
McNeill (D. L.)‡ (*s*)
Morrison (*s*)
Mackeen and Story‡, equal.
MacEwen and Frame‡ (*s*), equal.
Quin (*s*)

(*s*) Supplemental in one subject.
‡ McGill University College of B. C., Vancouver.
† McGill University College of B. C., Victoria.

Goldwater (*s*) and Henry (*s*) and Samson (*s*), equal.
Howell‡ (*s*) and Holmes †, equal.
Garber
Henson (*s*)
Stuart (L. J.) and Hosang‡ (*s*), equal.
Tinling
Ireland‡ (*s*) and McArthur‡ (*s*), equal.
Goodrich (*s*) and Logan‡ (*s*) and Stevens† (*s*), equal.
Greggs‡ (*s*) and Pye‡ (*s*), equal.
Chauvin (*s*)
Cameron (*s*)
Taylor (H. H.) (*s*)
Stewart (C. J.) (*s*)
Burton (*s*)
Rogers‡ (*s*)
Gale (*s*)
Gauthier (*s*) and McTavish‡ (*s*), equal.
Bodie (I. A.)‡ (*s*)
McCaw (*s*)
McKinnon‡ (*s*)
Denny (*s*)
England (*s*)
Creighton‡ (*s*)
Findlay (*s*)

*ægrotant.*

Ford
Millson

(2) FOR COURSE LEADING TO B.SC.

*Class I.*

Hemming

*Class II.*

None.

*Class III.*

Griffith (*s*)
Johnston (*s*)

(3) FOR COURSE LEADING TO THE DIPLOMA OF COMMERCE.

*Class I.*

None.

*Class II.*

Bates
McKeown
Walley

*Class III.*

None.

(*s*) Supplemental in one subject.
‡ McGill University College of B. C., Vancouver.
† McGill University College of B. C., Victoria.

## STANDING IN THE SEVERAL SUBJECTS.

### FOURTH YEAR.

#### BOTANY (SPECIAL COURSE FOR STUDENTS IN EDUCATION)

*Class I.*—None. *Class II.*—Hulburd, Robertson, Wilson. *Class III.*—None.

#### CHEMISTRY (PHYSICAL).

*Class I.*—Maass, Maclean, Scott, Lochhead. *Class II.*—None. *Class III.*—MacQueen, Hill.

#### ECONOMICS.

(1) Economic Theory.

*Class I.*—None. *Class II.*—Knowling, Henry, Gillmor, Paterson. *Class III.*—Herschorn, Beckwith and Olmstead and VanVliet, equal; MacQueen.

(2) Public Finance.

*Class I.*—Angus and Clearihue, equal; Dixon and Tannenbaum and Weir, equal; Moyse. *Class II.*—Curry and Kerry, equal; Knowling; Dewey and Estey, equal. *Class III.*—Cook; Jacobs and Newcombe, equal; Herschorn.

(3) Transportation.

*Class I.*—Angus, Clearihue, Dixon, Kerry, Currie. *Class II.*—Bissett, Cook, Beckwith; Newcombe and Tannenbaum, equal. *Class III.*—None.

#### HISTORY OF EDUCATION.

*Class I.*—Meadows and Letvinoff and Williams, equal; Smith (M.); Livinson and Bennett, equal; Dean, Dewey, Walker (M.), Miller, Willett. *Class II.*—Howell; Thomas and Chandler and Dixon and Brown and Hulburd, equal; Fletcher and Selman and Armstrong and Allan and Robertson and Stewart (M.) and Craig and Ellison, equal; Macdonald; Dowd and McLaurin (C.) and Henry and Braeuer and Macleod (H.) and McCoy, equal; Boright and Larivière and Wilson, equal. *Class III.*—Younger (M.), Wadleigh; Hill and Younger (L.), equal; Dumaresq, Oughtred, Duguid.

#### EDUCATIONAL PSYCHOLOGY.

*Class I.*—Armstrong and Livinson and Meadows, equal. *Class II.*—Dewey and Longworth and Murchison, equal; Dean and Fletcher and Larivière and Selman, equal; Macdonald, Smith (M.); Wadleigh and Greer and Hammond and Macleod (H. E.) and Paterson-Smyth and Schafheitlin, equal; Dowd. *Class III.*—Thomas and Henry and Lawrence and McLaurin (C.) and Ross and Younger (L.) and Brown and Willett and Williams, equal; Letvinoff and Olmstead and Dixon and Craig and Dumaresq and Oughtred and Scott and Younger and Boright, equal; Mathewson and Hill and McCoy, equal.

ENGLISH COMPOSITION (1).

*Class I.*—Selman; Macnaughton and Willett, equal; Hammond and Murchison and Wanklyn, equal; Irving, Lindsay. *Class II.*—Hulburd and Wilson, equal; Hayden and Livinson, equal; Reid; Brown and Macleod and Robertson, equal; Letvinoff and Smith, equal; Greer and Herschorn, equal; Craig. *Class III.*—Boyd, Armstrong, Larivière.

ENGLISH COMPOSITION (2).

*Class I.*—Williams; Paterson and MacQueen, equal; Gillmor, Hannah, Ellison, VanVliet; Chandler and Dixon and Howell, equal. *Class II.*—Heney and Moyse, equal; Gibbins, Meadows; Dowd and Olmstead, equal; Fletcher, Morris. *Class III.*—Bissett, Macleod, Knowling, Thomas, Jacobs, Cherry, Hill, Beckwith, Thompson, Davidson, Trainor.

ENGLISH LITERATURE.

(1) English Prose Fiction.

*Class I.*—Macnaughton; Murchison and Wanklyn, equal; Boyd, Warburton Hammond; Selman and Smith, equal; Irving, Greer, Lindsay. *Class II.*—Reid, Hayden; Robertson and Willett, equal; Wilson; Livinson and Macleod, equal; Ellison; Craig and Letvinoff, equal; Brown and Hulburd, equal; *Class III.*—Armstrong, Larivière.

(2) Nineteenth Century Poets.

*Class I.*—Macnaughton and Murchison, equal; Wanklyn, Warburton, Young; Chandler and Macdonald, equal; Lindsay and Reid, equal. *Class II.*—Letvinoff, Willett, McInnis, Macleod, Irving, Smith, Selman, Hayden, Howell, Brown; Boyd and Olmstead, equal; Gibbins and Wilson, equal. *Class III.*—Craig; Thompson and Robertson, equal; Murray and Hulburd, equal; Larivière, Armstrong Wilkes, Turner.

(3) Spenser and Milton.

*Class I.*—Muir, Murchison, Hammond; Manny and Young, equal; Macnaughton, Longworth; Brown and Smith, equal. *Class II.*—Warburton, Pennington, Murray, McInnis, Irving, Thompson. *Class III.*—None.

(4) Comparative Literature.

*Class I.*—Longworth, Braeuer, Smith, Hammond, Macnaughton; Livinson and Manny and Warburton, equal. *Class II.*—None. *Class III.*—None.

FRENCH.

*Class I.*—Larivière, Williams. *Class II.*—Lindsay, Hayden, VanVliet. *Class III.*—Greer.

GENERAL GEOLOGY.

*Class I.*—Macleod and Smith, equal; Macleod (H. E.) and Willett, equal; Hill, Boyd. *Class II.*—Bissett, Dixon. *Class III.*—Dowd and Thompson, equal.

GEOLOGY (Continuation Course).

*Class I.*—Chandler, Howell. *Class II.*—None. *Class III.*—Fletcher.

GERMAN.

*Class I.*—Schafheitlin. *Class II.*—Williams. *Class III.*—None.

GREEK.

*Class I.*—None. *Class II.*—King, Paterson. *Class III.*—None.

HISTORY.

*Class I.*—Meadows, Selman, Reid; Macleod (J. V.) and Hulburd, equal; Greer; Fletcher and Robertson, equal. *Class II.*—Wilson, Hayden, Davidson, VanVliet. *Class III.*—Letvinoff.

HISTORY (Honour).

*Class I.*—Murchison; Heney and Craig, equal; Dewey; Moyse and Chandler, equal; Howell; Hannah and Weir, equal; Irving; Jacobs and Olmstead, equal; Brown, Knowling. *Class II.*—Herschorn. *Class III.*—None.

HISTORY (Continuation).

*Class I.*—Thorne, O. (B. A.), Dewey. *Class II.*—Murchison, Cherry, Weir, Irving.

HISTORY (Topics).

*Class I.*—Kerry, Dewey; Currie and Dixon, equal. *Class II.*—Bissett, Hannah, Cook. *Class III.*—None.

LATIN.

*Class I.*—Grimes, King. *Class II.*—None. *Class III.*—Macleod, Dixon.

LAW.

(1) Constitutional Law.

*Class I.*—Clearihue; Gillmor and Newcombe, equal. *Class II.*—Weir, Tannenbaum. *Class III.*—Beckwith and Hannah and Heney, equal; Herschorn.

(2) Roman Law.

*Class I.*—Pearse. *Class II.*—Knatchbull-Hugessen, Moyse, Babcock. *Class III.*—Gillmor, Lumsden.

MORAL PHILOSOPHY.

*Class I.*—Angus and Roback, equal; Johnston, Heney; Percival and Wanklyn, equal. *Class II.*—Tremblay; Hughes and Gibbins, equal; Bolingbroke and Reid, equal; Booth, Ellison, MacQueen. *Class III.*—Hannah; Cherry and Davidson (W.) and Davidson (R.), equal; Muhlstock, Livinson, Chenier; Hatcher and Beckwith and Wolland, equal.

PHILOSOPHY (History of)

*Class I.*—Bridges and Roback, equal. *Class II.*—Percival, Johnston, Morris, Armstrong, Dowd. *Class III.*—None.

PHILOSOPHY (Greek).

*Class I.*—Roback, Bridges, Johnston. *Class II.*—Robinson. *Class III.*—None.

PSYCHOLOGY (Advanced).

*Class I.*—Bridges. *Class II.*—Johnston. *Class III.*—Dowd.

PHYSICS.

*Class I.*—Papineau-Couture, Thomas, Maclean, Lochhead. *Class II.*—Meadows, Bissett, Blake, Reilley. *Class III.*—Thompson.

POLITICAL SCIENCE.

*Class I.*—Paterson, Lindsay, Wanklyn. *Class II.*—Thomas. *Class III.*—Ellison, Boyd; Davidson and Morris, equal.

POLITICAL ECONOMY (Money and Banking).

Ordinary Students.

*Class I.*—Thompson, Harris. *Class II.*—Cherry. *Class III.*—None.

## THIRD YEAR.

CHEMISTRY (Physical).

*Class I.*—Couture. *Class II.*—Mathewson (W.) *Class III.*—Wadleigh.

CHEMISTRY (Qualitative Analysis).

*Class I.*—None. *Class II.*—Couture. *Class III.*—Mathewson (W.)

COMPARATIVE PHILOLOGY (General Paper).

*Class I.*—Roback. *Class II.*—Bennett, French. *Class III.*—Lindsay.

COMPARATIVE PHILOLOGY (Phonology).

*Class I.*—Roback. *Class II.*—None. *Class III.*—None.

ECONOMIC THEORY.

*Class I.*—Pearse, Mathewson (A.), Going; Babcock and Knatchbull-Hugessen, equal. *Class II.*—Muhlstock, Kert; Stalker and Walker, equal; Green. *Class III.*—Chenier and Lumsden, equal; Macdonald, Grossman, Campbell.

ENGLISH COMPOSITION (1).

*Class I.*—Muir, Cockfield, Longworth, Manny; Braeuer and Brown and Lawrence, equal; Pennington and Smith, equal. *Class II.*—Kneeland, Ross; Booth and Younger (L.), equal; McLaurin (B.), Younger (M.); Cameron and Henry and Proctor, equal; McLaurin (C.). *Class III.*—Boright, Hatcher; Hadrill and Hughes, equal; Davidson, Quigley.

ENGLISH COMPOSITION (2).

*Class I.*—Murray, Budyk , Wilkes, ; Walker (M.G.) and Holland‡, equal; Dumaresq, MacInnis, Allan, Gordon, Macdonald (S.), Dean, Oughtred. *Class II.*—Scott and Wadleigh and Campbell (L.), equal; Turner and Young and Green, equal; McCuaig, Muhlstock; Thomson (H. F.) and Greggs‡, equal. *Class III.*—Stalker, Papke‡, Barlow, Muddell‡; Corry‡ and Lehmann‡, equal.

ENGLISH LITERATURE.

(1) Eighteenth Century.

*Class I.*—Muir, Cockfield, Smith, Longworth, Henry, Greggs‡. *Class II.*—Brown and Lawrence and Proctor, equal; Holland‡, Kneeland, Pennington, Hughes, Younger (L.), Papke‡. *Class III.*—Boright; Hatcher and Ross, equal; Booth, Muddell‡, Cameron; Hadrill and McLaurin (B.), equal; McLaurin (C.), Lehmann‡; Quigley and Younger, equal; Davidson, Corry‡.

(2) Shakspere.

*Class I.*—Smith, Muir, Greggs‡,. *Class II.*—Cockfield and Longworth and Holland‡, equal; Pennington, Young; Murray and Braeuer, equal; Walker and Henry, equal; Brown and Lawrence and Macdonald and Papke‡, equal; Thomson, Kneeland. *Class III.*—Gibbins and McLaurin (B. M.), equal; Muddell‡; Allan and Cameron equal; Younger (L.), Booth, McLaurin (C. E.), Ross, Lehmann‡, Younger (M. R.), Hadrill, McInnis; Wilkes and Corry‡, equal.

FRENCH.

*Class I.*—None. *Class II.*—Budyk. *Class III.*—Papke‡, Kneeland, MacEwen.

FRENCH (Special half-course).

*Class I.*—None. *Class II.*—Mathewson. *Class III.*—Kert.

‡ McGill University College of B. C., Vancouver.

GEOLOGY.

*Class I.*—Ross, Lawrence, Kneeland, McLaurin (C.), Allan. *Class II.*—Walker (M.) and McLaurin (B.), equal; Booth and Hatcher and Cameron (H. L.), equal; Hughes and Dumaresq and Scott, equal; Quigley, Davidson, Green and MacEwen and Campbell (L.M.), equal. *Class III.*—Proctor and Oughtred, equal; Boright and Hadrill, equal; Rayner.

GERMAN.

*Class I.*—None. *Class II.*—Gronin, Harris, Stewart (M.). *Class III.*—None.

GREEK.

*Class I.*—None. *Class II.*—French, Lindsay.

HEBREW.

*Class I.*—Berman. *Class II.*—None. *Class III.*—None.

HELLENISTIC GREEK AND HEBREW.

*Class I.*—Naylor. *Class II.*—Thorne, Hodgkinson, Morris. *Class III.*—Pelletier.

HISTORY.

*Class I.*—Muir, Going, Young, Brown (V. L.), Thomson, Ross; Henry and Lawrence, equal; Murray and Dean, equal. *Class II.*—Younger (L.), Pennington, MacInnis, Dumaresq, Oughtred, Younger (M.), McLaurin (B.). *Class III.*—Scott, Hadrill, Wadleigh, Grossman, Cameron (H. L.), Green, Campbell.

HISTORY (Honour).

*Class I.*—Muir and Brown (V. L.), equal; Young; MacInnis and Pennington, equal. *Class II.*—Murray, Thompson. *Class III.*—None.

LATIN.

*Class I.*—Gordon. *Class II.*—Lindsay, French. *Class III.*—Papke‡, Bennett, Muddell‡, Walker, Corry‡, Allan.

PHYSICS.

*Class I.*—Cockfield, Muddell‡. *Class II.*—Stalker, Greggs‡, Gordon, Blake. *Class III.*—Holland‡, Barlow.

POLITICAL SCIENCE.

*Class I.*—Gordon. *Class II.*—Cockfield, Muhlstock, Budyk. *Class III.*—Stalker.

‡ McGill University College of B. C., Vancouver.

POLITICAL ECONOMY (Money and Banking.)

Ordinary Students.

*Class I.*—None. *Class II.*—None. *Class III.*—Muhlstock, Budyk.

ZOOLOGY.

*Class I.*—None. *Class II.*—Dean, Mathewson (W.). *Class III.*—None.

SECOND YEAR.

(1) ANIMAL BIOLOGY (Christmas, 1910).

*Class I.*—Duff, Fritz. *Class II.*—None. *Class III.*—McLeod (W. M.), Macleod (D.), Shanly.

(2) ANIMAL PHYSIOLOGY.

*Class I.*—Fritz. *Class II.*—Shanly. *Class III.*—None.

(3) PLANT BIOLOGY.

*Class I.*—Fritz, Duff. *Class II.*—McLeod (W. M.). *Class III.*—Shanly, MacLeod (D.)

CHEMISTRY.

*Class I.*—Miller, Macnaughton, Pedley, Stewart (J. G.); Chaffey and Duff and Goldbloom, equal; Brown, Lowry, Reid‡, Fritz, Larivière. *Class II.*—Church; Leavitt and Hardy‡, equal; Gall and Molleur, equal; Blake and Lovett and McVey and Forster‡ and Keenleyside‡, equal. *Class III.*—Bolton‡ and McKay‡, equal; McLeod (W. M.), Davison‡; Des Brisay‡ and Sargent‡, equal; Smith (E. E.); Sacksner and Williams, equal; Smith‡, Baldwin‡, Morgan; Barrett‡ and Munro‡ and Kirkpatrick‡ and Busby‡ and Austin‡, equal.

ENGLISH COMPOSITION.

*Class I.*—Chaffey, Corbett; Nicholson and Hardy‡, equal; MacSween, Dewey, Common, Forster‡, Mount, Bruneau; Duff and Leonowens and Reinhardt, equal; Cameron and McGarry and Wilder and Schwengers‡, equal; Atkins and MacNaughton and Morgan and Morison (M.) and Penny and Letvinoff‡, equal; Armstrong and Larivière and McIllwraith and Robinson and Stewart (J. G.) and Trapp, equal. *Class II.*—Sacksner, Pedley; Bridgman and Miller, equal; Farthing and Fritz and Lighthall and Matheson and Bolton‡ and Davison‡ and Gilbert‡, equal; Cairnes‡; Lowry and Schwesinger‡, equal; Bieler and MacCormack, equal; Fisher and Honey and Dunbar‡, equal; Dale-Harris and Heaton and Adams†, equal; MacLean (K.) and Barrett‡ and Keenleyside‡, equal; Bradbury and Gall and Henry and Walsh and England‡, equal. *Class III.*—Scott (C. O.)‡, Austin‡; Brown (F. R.) and Baldwin‡, equal; Church and Hecht and McLeod (W. M.) and Struthers and Shearing, equal; Williams and Smith‡, equal; Cream

‡ McGill University College of B. C., Vancouver.

and Morison (C. K.) and Hewlings†, equal; Goldbloom and McVey and Ross and Smith (R. S.) and Stevenson, equal; Lovett and Maclean (A.)‡, equal; Munro†, Norris†, Busby‡, Hodgson, Silver; Leavitt and DesBrisay‡ and McKay‡, equal; Burgess and Jeakins and Scott and Shanly and Clay† and McNaughton‡ and Moore†, equal.

ENGLISH LITERATURE.

*Class I.*—Hardy‡; Chaffey and Mount, equal; Bruneau, Fisher, Robinson, Leonowens, MacSween; McIlwraith and McCormack, equal; Corbett, Lighthall, Farthing, Reinhardt; Fritz and Armstrong and McGarry and McVey and Nicholson and Cairnes‡ and Schwengers‡, equal. *Class II.*—Morison and Shearing and Bridgman, equal; Wilder and Atkins, equal; Cameron (A.) and Common and Dewey and Dunbar‡,equal; Hecht and Jeakins and Austin‡, equal;Hewlings†; Trapp and Henry and Morgan and Davison‡, equal; Letvinoff‡; Fleet (J.) and Smith and Adams†, equal; Cream; Heaton and Hodgson and Walsh and Wilson , equal; Maclean and McLeod and Bolton‡ equal; Keenleyside‡; Bradbury and Scott, equal. *Class III.*—Lovett; Ross and Scott (C. O.), ‡equal; Matthews and Maclean (A.)‡ and Clay†, equal; Gilbert‡; Matheson and England‡, equal; Munro‡; Burgess and Nehin and Caldwell†, equal; Brown and Baldwin‡ and Busby‡, equal; Macaulay, Williams, Wilkinson‡, McKay‡; Sargent‡ and Moore†, equal; McNaughton‡ and Smith‡, equal; Barrett‡ and Norris†, equal; Campbell and Kirkpatrick and Scott (S. D.)‡, equal.

FRENCH.

*Class I.*—Forster‡. *Class II.*—Silver, Mount, Dale-Harris, Leonowens, Adams†, Davison‡, Caldwell†. *Class III.*—Nicholson and Pedley, equal; Armstrong and Gall and Morison (C. K.), equal; Cream and Reinhardt, equal; Brown and Cameron (A.), equal; Common and Lighthall and Hewlings†, equal; Lovett and Levinoff‡, equal; Atkins; Church and Sacksner, equal; Penny and Wilder and Clay†, equal; Hecht, Shanly; Bridgman and Macaulay and Beattie†, equal; MacIlwraith, Barrett‡; Fortier and Lowry and Drury†, equal.

FRENCH (Advanced).

*Class I.*—Bruneau, Corbett. *Class II.*—Rivard (E.), Fisher, McGarry, Morison (M.), MacSween, Duff, Robinson. *Class III.*—Honey.

GERMAN.

*Class I.* MacSween. *Class II.*—Mount, Papke‡, Goldbloom. *Class III.*—Armstrong, Bieler; Letvinoff ‡ and Clay†, equal; Leonowens, Schwesinger‡, Leavitt.

GREEK.

*Class I.*—Dunbar‡, Macnaughton, Dale-Harris, Stewart, Williscroft†, Dewey. *Class II.*—Norris†, Hardy‡. *Class III.*—Cairnes‡, Gilbert‡, Wolland and Keenleyside‡, equal; MacLean, Bradbury.

‡ McGill University College of B. C., Vancouver.
† McGill University College of B. C., Victoria.

HEBREW.

*Class I.*—Wilson (Neil Stewart Prize). *Class II.*—Wolland, Bradbury, Jeakins. *Class III.*—Henry, Morris, Lofthouse, Allan, Morison, Thorne, MacWilliam; Hodgkinson and Matheson, equal; Robinson, Stevenson, Pelletier.

HISTORY (half-course).

*Class I.*—Macnaughton and Fisher, equal; Hecht, Dewey, Bruneau, Bieler; McVey and Lighthall, equal. *Class II.*—Bridgman and Stewart, equal; Farthing and Heaton, equal; McCormack and Penny equal; Atkins and Common. equal; Walsh, Maclean; Macleod and Nicholson and Shanly, equal; Morgan and Wilson (W. G. A.), equal; Stevenson; Shearing and Trapp, equal; Ross. *Class III.*—Wilder; Henry and Morison, equal; Lovett, Scott, McConnell, Honey, Mick, Nehin, Campbell.

POLITICAL ECONOMY (half-course).

*Class I.*—Atkins and Stewart, equal; Fisher, Dewey, Bruneau, Nicholson; Bridgman and Macnaughton and Farthing and Hecht and Morison, equal. *Class II.*—Penny; Bieler and Common and Honey, equal; McVey; Wilson and Heaton, equal. *Clzss III.*—Henry; Morgan and Trapp, equal; MacLeod (D.); Shearing and Ross, equal; Lighthall; Maclean and McCormack and Shanly, equal; Stevenson, Campbell, Nehin.

SPECIAL EXAMINATION IN POLITICAL ECONOMY.

*Class I.*—Viner.

LATIN.

*Class I.*—Corbett, Macnaughton; Dunbar‡ and Norris†, equal; Hardy‡; Bruneau and Harris and Hewlings†, equal; Mount, Fritz; Dewey and MacSween and Forster‡ and Caldwell†, equal. *Class II.*—Adams†; Chaffey and Williscroft†, equal; McGarry; Brown and Stewart (J. G.) and Gilbert‡ and Drury†, equal; Silver and Cairnes‡ and Clay†, equal; Duff and Robinson, equal; Goldbloom, Letvinoff‡; Bieler and Davison‡ and Beattie†, equal; Church and Fisher and Morison (M.), equal. *Class III.*—Moore†; Hecht and Leonowens and DesBrisay‡ and Keenleyside‡, equal; Gall and Honey, equal; Atkins and Pedley and Wilson, equal; Penny and Sargent‡, equal; Armstrong and Bolton‡, equal; Reinhardt; Common and Nicholson, equal; Bridgman and McKay‡ and Schwengers‡, equal; Morison (C. K.) and Smith, equal; England‡; Scott and Baldwin‡ and Busby‡ equal; Lowry and Sacksner and Cameron and Barrett‡ and Austin‡, equal; Jeakins and MacLean and Stevenson, equal; Kirkpatrick‡ and Scott (C. O.)‡, equal; Farthing and Heaton, equal; Leavitt and Wilder and Smith‡, equal.

LOGIC.

*Class I.*—Roback, Corbett, Robinson, Chaffey Jeakins. *Class II.*—Reinhardt; Morison (M.) and Dunbar‡, equal; Farthing; Bieler and Schwengers‡, equal; Honey and Walsh, and Gilbert‡, equal.

‡ McGill University College of B. C., Vancouver.
† McGill University College of B. C., Victoria.

*Class III.*—Stevenson, McCormack, McGarry, Matheson; Cameron and Baldwin‡, equal; McVey and Scott (C. O.)‡, equal; Bradbury; Williams and Sargent‡, equal; Morison (C.) and Wilson (R. H.)‡, equal.

MATHEMATICS.

(1) Solid Geometry and Conic Sections.—(Christmas, 1910)

*Class I.* Silver and Dale-Harris, equal; Miller, Moore†, Kirkpatrick‡, Caldwell†. *Class II.*—Beattie†; DesBrisay‡ and Drury†, equal; Williscroft†, Reid‡, Penny, Larivière. *Class III.*—Munro‡; Cairnes‡ and Adams†, equal; Bolton‡, Ross (L.); MacNaughton (I. R.) and McConkey and Hewlings† equal; Austin‡, Molleur, Macaulay (D. L.), Barwick.

(2) Algebra.

*Class I.*—Silver. *Class II.*—Miller (I. A.); Macaulay (D. L.) and Reid‡, equal; DesBrisay‡; Kirkpatrick‡ and Caldwell†, equal; Cairnes‡; Larivière (R.) and Beattie† and Moore†, equal; Bolton‡. *Class III.*—Macnaughton (I. R.), Heaton, Adams†, Merrill; Penny and Munro‡, equal; Dale-Harris, Drury†, Norris†; Barwick (F.) and McKay‡, equal.

(3) Spherical Trigonometry.

*Class I.*—Silver. *Class II.*—Macaulay. *Class III.*—Barlow.

PHYSICS.

*Class I.*—Miller, Larivière. *Class II.*—Molleur.

PSYCHOLOGY.—(Christmas, 1910.)

*Class I.*—Bieler and Corbett and Roback, equal; Honey, Morison (M.) *Class II.*—Dunbar‡ and Gilbert‡, equal; McCormack and McVey, equal; Reinhardt; Baldwin‡; Farthing and McGarry and Matheson and Morison (C. K.) and Chaffey, equal. *Class III.*—Trapp and Williams, equal; Walsh and Bradbury and Stevenson and Esperon‡, equal; Schwengers‡; Cameron and Sargent‡, equal; Hodgson and Jeakins and Scott (C. O.)‡ and Wilson (R. H.)‡, equal; McNaughton‡, McIlwraith, Maclean (A.)‡.

## FIRST YEAR.

CHEMISTRY (B.Sc. Course.)

*Class I.*—Hemming. *Class II.*—None. *Class III.*—Griffith (H. B.), Johnston.

ENGLISH AND HISTORY.

*Class I.*—MacKenzie‡, McCrudden, Bradford, Griffith (H. R.); Willis and Vermilyea (A. I.)‡ and Buck‡, equal; Bramley-Moore and Cooper and Appleton‡, equal; Donaghue. *Class II.*—Ross‡; Brooks and Moulton, equal; Jenkins and Rowat and Goldstein (H.

‡ McGill University College of B. C., Vancouver.
† McGill University College of B. C., Victoria.

M.), equal; Wilgress and Hardwick, equal; Vallance and Hemming and McKeen (A, C.) and Cousins‡, equal; Taylor (H. H.) and Burridge†, equal; Fry and Gentles, equal; Burton and MacGuire and Glendinning and Goldstein (D.) and O'Meara† and Ryan†, equal; Viner (J.) and Ford and Mude‡ and Duncan‡ and Wallace‡ and Norris†, equal; Quin and Buchanan (J. H.)‡ and Vermilyea (B.)‡, equal; Taylor (J. R.) and Beatty and Howard and Balkwill‡, and McNeill (D. L.)‡ and Leslie‡, equal; Denny and Scott (H. E.) and Warshawsky and Griffith (H. B.) and Mace and Grimes and Wornell and Howell‡ and Ireland‡ and McArthur‡ and McKinnon‡ and McTavish‡, equal. *Class III.*—Sivertz† and Drost‡ and McNiven‡, equal; Chown and Jess and Lighthall and Wright‡, equal; Cushing and Gauthier and Gordon and Story‡ and Wolfenden†, equal; Weston and McCaw and Bodie (I. A.)‡, equal; Fowler and Guy and Planche and Northrop‡, equal; Samson and Meldrum and Rogers‡ and Shearman‡, equal; Henson and McNaughton and Myers and Henry and McLennan and Holmes†, equal; England and McNaughton and Goldwater and Chauvin, equal; Grant and Viner (B.), equal; Browne and Caldwell and Leslie and Macnaghten‡ and Taylor‡ and Yeo†, equal; Williams and McDonald (L. H.)‡ and Pye‡, equal; Holden and Reid (G. E.) and Tinling and Graham and Morrison (D. M.) and Leonard and Hosang‡, equal; Blair and Metcalfe and Todhunter‡, and Fox† and Middlemiss†, equal; Cameron (C. M.) and Johnston and Kittredge and Greggs‡ and Logan†, equal; Fairgrieve and Little and Hay and Stevens†, equal; Gale and Douglas and Prather and Creighton‡ and Eckhardt‡ and Glass‡ and McDonald (J. A.)‡ and Grant‡, equal; Findlay and Goodrich and Laidlaw‡ and MacMillan‡, equal; Garber and MacEwen and Seale and Black and Williams and McIver‡ and Morrison (E. M.), equal; Grandy and Ewin‡ and Frame‡, equal; Bernfield (M.) and MacDermott and Fordon, equal.

PASSED IN LITERATURE.

Stevenson, Stewart, (C. J.), Stewart (L. J.), Bott, Hovey, Tredinnick, Kent, Buchanan (H.)‡, Carruthers‡, Creighton‡, Bruce‡, Eckhardt‡, Ewin‡, Frame‡, Gibson‡, Greggs‡, Laidlaw‡, Logan‡, McDonald (J. A.)‡, McLean (J. J.)‡, Treleaven‡, Glass‡, McIver‡, MacMillan‡, Macnaghten‡, MacDonald (L. H.)‡, Middlemess‡, McKay (A, H.)‡, Hannington†, Hinds†, Ramsey†, Salmon†.

PASSED IN HISTORY.

Macphail, Robinson, Bott, Rattray, Tredinnick, Kent, Ewin‡, Frame‡, McDonald (J. A.)‡, McLean (J. J.)‡, Wilson‡, Macnaghten‡, McKay (A. H.)‡, Haningtont, Salmon†.

PASSED IN COMPOSITION.

Macphail, Hovey, Bruce‡, Eckhardt‡, Greggs‡, Logan‡, Pim‡, Glass‡, McIver‡, MacMillan‡, Bodie (R. C.)‡, MacDonald (L. H.)‡, Middlemiss‡.

‡ McGill University College of B. C., Vancouver.
† McGill University College of B. C., Victoria.

FRENCH.

*Class I.*—McCrudden; Fry and O'Meara†, equal; Wolfenden†, Gentles; *Class II.*—Hanington† and Norris† and Sivertz†, equal; Bradford and Scott and Goldwater, equal; Rowat, Macnaghten‡, McNiven (Margaret)‡; Willis and Viner (B.) equal; Taylor (J. R.) and Logan‡ and Ryan†, equal; McKeown and Taylor (H. H.) and Goldstein (D.), equal; Douglas and Hay, equal; Grimes, Bruskey†, Warshawsky. *Class III.*—Bernfield (M.) and Holden and Chauvin, equal; Ford and Henson, equal; Armitage and Wilgress and Racicot, equal; Meldrum and Northrop‡, equal; Griffith and Bodie (.I A.)‡ and Ross‡ and Macdonald (L. H.)‡, equal; Blair and Cushing and Macphail and Moulton and Glendinning and Leslie and McCaw and Prather and Williams and Burridge†, equal; Chown and Vermilyea (B. B.)‡ and Cousins‡ and Black and Planche, equal; MacEwen and Weston and Kittredge, equal; Duncan‡ and Casey and Stuart (L. J.) and Tait and Kent, equal; Cooper and Denny and Creighton‡ and Morgan‡, equal; Mace and Ewing and Yeo†, equal; Reid and Hosang‡, equal; England and Garber and Quin and Pedlow and Buchanan (H.)‡ and Holmes†, equal; McNeill (D.) ‡; Ramsey† and Salmon† and Gale and Stewart (C. J.) and Bates and Howard and Mackeen, equal; McKinnon‡; Story‡ and Appleton‡ and Pye‡ and Fox† and Stevens† and Cameron (C. M.) and Graham and Ireland‡ and Laidlaw‡ equal.

ADVANCED FRENCH.

*Class I.*—Goldstein (M.), Rivard (L.). *Class II.*—Beaupré, Viner (J.); Jeakins and Lighthall, equal. *Class III.*—Racicot, Findlay, Mace, Gauthier, Charbonneau.

GERMAN.

*Class I.*—Goldstein (M.). *Class II.*—Willis, Goldwater (J.). *Class III.*—Brooks, Goldstein (D.); Pedlow and Morgan‡, equal; Creighton‡, Cousins‡, Purdy; Tinling and Bodie (I. A.)‡, equal.

GERMAN (Beginners')

*Class I.*—Silver. *Class II.*—Hemming, Kent, Samson. *Class III.*—Green, Racicot, Finklestein, Griffith (H. R.).

GREEK.

*Class I.*—Vermilyea (A. I.)‡. *Class II.*—McIver‡, MacKenzie‡, Robinson, Balkwill‡, Goodrich. *Class III.*—Drost‡; Naughton and Buck‡, equal; Donaghue and Gibson‡, equal; Grant‡, Buchanan (J. H.)‡, McLean‡(J.J.)‡, Fairgrieve, Samson, Findlay; McConnell and Fowler and Wallace‡, equal; Little and Rattray and Greggs‡, equal.

GREEK (Beginners)

*Class I.*—None. *Class II.*—Bramley-Moore. *Class III.*—Jess, Morrison, Ellis.

‡McGill University College of B. C., Vancouver.
† McGill University College of B. C., Victoria.

LATIN.

*Class I.*—McCrudden and Gentles, equal; Willis and O'Meara†, equal; Bradford and Meldrum, equal; Fry and MacKenzie‡ and Hanington† equal; Vermilyea (A. I.)‡; Hay, Burridge†, Sivertz†. *Class II.*—Norris†, Bramley-Moore, McIver‡, Goldwater and Buck‡ and Ryan,† equal; Rowat, Wolfenden†, Cousins‡; Scott and Wilgress, equal; Chown and Goldstein and McNiven (Margaret)‡, equal; Ramsey†; Logan‡ and Yeo†, equal; Henson and Ross‡, equal. *Class III.*—Black and Glendinning and Planche and Williams, equal; Cooper and Robinson, equal; Garber and Vermilyea (B. B.)‡, equal; Warshawsky and Northrop‡, equal; Donaghue and Chauvin and Hosang‡, equal; Viner and McArthur‡ and Bruskey†, equal; Cushing and Moulton and Balkwill‡, equal; Grimes and McKinnon‡ and Pye‡, equal; Quin and Mace and Buchanan (J. H.)‡, equal; Macnaghten‡, Howard; Ewin‡ and Gauthier and Holden and Taylor (H.) and Creighton‡ equal; Drost‡ and Brooks (W.) and Pedlow and Racicot and Bodie (I. A.)‡, equal; Gibson‡ and McTavish‡ and Blair and Stuart (L.) and Gordon and Frame‡, equal; Goodrich and Taylor (J.) and Douglas and Kittredge and McCaw and Story‡ and Hinds†, equal; Rogers‡ and Holmes† and Stewart (C.) and Leonard and Ireland‡, equal; Bernfeld (M.) and Findlay and Morrison and Greggs‡ and Grant‡, equal; Griffith and Jess and Henry and McLean (J. J.)‡ and MacMillan‡, equal; Denny and Macphail and Tinling and MacKeen and Tait and Bruce‡ and Laidlaw‡ and Stevens†, equal; Jenkins and Howell‡ and McNeill (D. L.)‡ and Morgan‡, equal; Fowler and McConnell and MacDermott and MacEwen and Reid and Walker and MacArthy and MacGuire and Weston and Ewing and Salmon†, equal.

MATHEMATICS.

(1) Algebra.

*Class I.* Fry, O'Meara†, Anglin; Blair and Viner, equal; Scott; Wilkes and Vermilyea (A. I.)‡, equal; Willis and Pye‡, equal; Hay and MacKenzie‡, equal; Douglas and Appleton‡, equal; Jarvis and Frame‡, equal; Bradford, Stuart (L. J.), McKeown. *Class II.*—Reid (G. E.) and Armitage, equal; Wolfenden†, Hanington†; Griffith (H. R.) and McLennan, equal; Henson; Darbyson and Bruce‡; equal, Gale, Bates, Chown; Wilgress and Mude‡, equal; Bernfeld (M.) and MacEwen and Williams (A.), equal. *Class III.*—Caldwell (A. B.) and Duncan‡, equal; Walker and Walley and Black and Glendinning, equal; Leslie and Story‡, equal; Pedlow; Cooper and Donaghue and McLennan (M.) and McArthur‡, equal; Cameron (E. M.) and Bott and Holmes† and Norris†, equal; Quin and Cameron (E. K) and Gentles and Logan‡, equal; Yeo† and Grimes and Planche and McNiven (Margaret)‡, equal; McNeill (C.)‡ and Balkwill‡ and Cousins‡ and Howell‡, equal; England and Hovey, equal; Ryan†; Drost‡ and Vermilyea (B. B.)‡ and Robinson (H. L.) and Burton and Gibb and McCuaig (D.) and Rivard (E. A.), equal; Northrop‡ and Buck‡ and Jenkins and Stewart (C. J.) and Seale and McKeen, equal; Tinling and McDonald (J. A.)‡ and Burridge†, equal; Bernfeld (W.) and Garber and Howard, equal; Beveridge‡ and McKinnon‡ and McTavish‡ and Finklestein and MacDermott and Browne (J. C.) and McArthur and McCracken and Goldwater and Kittredge, equal.

‡ McGill University College of B. C., Vancouver.
† McGill University College of B. C., Victoria.

(2) Trigonometry.

*Class I.*—Anglin, Bradford, Viner (J.), O'Meara†, Blair; Scott and Frame‡ and Wolfenden†, equal; Appleton‡; Wilgress and MacKenzie‡, equal; Vermilyea (A. I.)‡, Fry; Griffith (H.) and Pye‡, equal; Reid (G. E.) and McArthur‡ and Mude‡, equal; Cameron (C.) and Stuart (L.), equal; Douglas and Henson, equal; Darbyson. *Class II.*—Norris†, Hay, Bernfeld (M.); Chown and McLennan (D.), equal; Holmes†, Vermilyea (B. B.)‡; Garber and Wilkes and Glendinning, equal; Black and Howell‡, equal; Burton and Hanington†, equal; Tinling and McNiven (Margaret)‡, equal; Bruce‡; MacEwen and Seale and Grimes, equal; Burridge†. *Class III.*—Cooper and Fowler and Morrison, equal; Finklestein and Balkwill‡, equal; Donaghue; Jenkins and Kittredge and Fox†, equal; McCracken and Logan‡, equal; Brooks and Samson and Beaupré and Gentles, equal; McCuaig and Hosang‡ and Buck‡, equal; Yeo†; Bernfield (W.) and England and Bott and Williams and Drost‡ and Hinds†, equal; Story‡ and Wilson‡ and Ramsey† and Vallance and Hovey and Planche and McKinnon‡ and McNeill (D. L.)‡, equal; McTavish‡ and Gale and McDonald (J. A.)‡ and McLean (J. J.)‡ and McNeill (C.)‡,equal; Bramley-Moore and McKeen, equal; Duncan‡ and Northrop‡ and Sivertz† and MacDermott and Rivard (L.) and Panet-Raymond and Greggs‡, equal; Fordon and Howard, equal; Gill; MacArthur and Wright‡ and Bodie (R. C.)‡, equal; Rogers‡ and Taylor‡ and Fairgrieve and Stevenson and Hyde and Jarvis and Chauvin, equal; Goodrich and Quin and Walker and Davis, equal.

(3) GEOMETRY (Christmas, 1910.)

*Class I.*—Willis and Blair and Fry and Hanington†, equal; Burridge† and O'Meara†, equal; Dunn†; Hay and Norris†, equal; Douglas (C.) and Anglin, equal; Black and Frame‡ and Mude‡ and Vermilyea (A.)‡, equal; MacKenzie‡ and McTavish‡ and Stevens†, equal; Darbyson and Howell‡ and Ryan†, equal. *Class II.*—Bradford, Donaghue, Yeo†; Millson and Bott, equal; Williams and Wilgress and Ramsey†, equal; Wolfenden†; Chown and Hyde, equal; Robinson and Cooper and Pim‡, equal; Kittredge and Gentles and Cousins‡, equal; Cameron (C. M.) and Viner and McDonald (J. A.)‡, equal; Planche and Burton and Armitage and Morrison and Moodie‡ and Bramley-Moore and Vermilyea (B. B.)‡, equal. Griffith; Jarvis and Tinling and Reid (G. E.) and Ford and Milton‡, equal; Henson and Ford‡, equal; Glendinning and Fairgrieve and Logan‡ and Appleton‡ and Fox†, equal. *Class III.*—Hosang‡ and Story‡, equal; Ouimet and Ireland‡ and Duncan‡ and Dowler† and Sivertz†, equal; Bernfield (M.) and Finklestein and England and Bruce‡ and McNeill (C.)‡, equal; Wilkes and Vallance and McNeill (D. L.)‡ and Rogers‡ and Wright‡ and McNiven‡, equal; Howard and Buchanan (J. H.)‡ and Bodie (R. C.)‡, equal; Brooks (W. A.) and Fordon and Walker and Jenkins and McLennan (D.), equal; Caldwell and Balkwill‡ and Creighton‡, equal; Little and McAvity and Northrop‡ and Bruskey† and Holmes†, equal; Macnaghten‡; Beveridge‡ and McKinnon‡ and deWolf‡ and Salmon†, equal; Panet-Raymond and Drost‡ equal; Mackeen and Stewart

‡ McGill University College of B. C., Vancouver.
† McGill University College of B. C., Victoria.

(L. A.) and Rivard (E. A.) and McLean (J. J.)‡, equal; Ewin‡ and Upham‡ and Findlay and MacGuire and Samson and Carruthers‡, equal; Gale and McCracken and Spearman‡ and Hinds†, equal; McCuaig and Fenster, equal; Grimes and Tait and Duclos and Wilson‡, equal; Allen† and Brown (H.) and Greggs‡ and Paddon‡ and Treleaven‡, equal; Gauthier and Buck‡, equal; Rivard (L. T.) and Farrell and Goodrich and Gibbs and Hovey and McArthur‡, equal; Bodie (I. A.)‡ and Eckhardt‡ and Maclean (A.)‡ and Goldwater and Bernfeld (W.) and Garber and Rivard (P. F.) and MacArthur, equal.

PHYSICS (Lectures.)

*Class I.*—McCrudden, Hemming; Anglin and Bradford, equal; Macphail, Willis; Rowat and Hanington†, equal; Darbyson and Meldrum and MacKenzie‡, equal; Moulton, Bates and Viner, equal; Hovey, Fry, Wilgress; Glendinning and Frame‡ and Howell‡, equal; Taylor (J. R.), Gentles; Reid (G. E.) and Henry and Duncan‡, equal. *Class II.*—Appleton‡; Blair and Holden and Hay and O'Meara†, equal; LeMay, Chown (H. B.) and Gale and Twitchell, equal; Kittredge and Rogers‡, equal; Douglas and Scott and Weston and Mude‡, equal; Cameron(C.)and Gordon, equal; Cushing and Howard and Buck‡, equal; McArthur and Planche and McNeill (D. L.)‡, equal; Donaghue and Leslie, equal; Putnam and Wilkes, equal; Bernfield (Max) and Duclos and Cooper and Black and Goldstein and Ross‡ and Wolfenden†, equal; Ford and Griffith (H.) and Couture and Northrop‡ and Vermilyea (A. .I)‡ and Wilson‡ and Yeo†, equal. *Class III.*—Odell and Williams, equal; Armitage and McKeown and Chauvin and Bruce‡ and Burridge†, equal; Brooks and Gauthier and Morrison and Stewart (C. J.) and Kent and Drost‡ and McDonald (J. A.)‡ and McLean (J. J.)‡ and Story‡, equal; Leppo and Myers and Purdy and Norris†, equal; Warshawsky and Grimes and Ramsey† and Stevens†, equal; Stewart (L. A.) and Jarvis and MacKeen (A, C.) and McNiven (M.)‡ and Bodie (R. C.)‡, equal; Fairgrieve and Johnston and McCaw and Spearman‡, equal; MacEwen (E.) and Greggs‡ and Vermilyea (B. B.)‡ and Taylor‡, equal; Hyde and Haszard and McArthur‡, equal; Metcalfe anf Quinn and Waugh and MacLennan (M.) and Wright‡, equal; McDermott; Fordon and Ewing and Tait and McTavish‡, equal; Browne (J.) and McCuaig and Vallance and Racicot and Balkwill‡, equal; Denny and England and Garber and Macnaghten‡ and Sivertz‡, equal; Leonard and Hinds† and Holmes†, equal; Beatty and Fenster and Beveridge‡, equal, Burton and Graham and MacGuire and Hosang‡ and Ireland‡ and Wallace‡, equal; Bott and Finklestein and Goodrich and Jenkins and Tinling, equal; Findlay and Gibb and Guy and McLennan (D.) and Robinson and Samson and Seale and Taylor (H. H.) and Ryan†, equal.

PHYSICS LAB. (Optional).

*Class I.*—Macphail, McCrudden, Anglin, Meldrum, Willis, Henry, Goldstein, Darbyson, Twitchell; Jarvis and Johnston and Seale, equal; Leppo; Glendinning and Howard, equal; Cushing and Hemming and Leslie, equal; Griffith (H. B.) and Lemay and Moulton, equal;

‡ McGill University College of B. C., Vancouver.
† McGill University College of B. C., Victoria.

Blair; Bernfeld (M.) and Kittredge, equal. *Class II.*—Gauthier and Hyde, equal; Couture and Taylor and Wilgress and Wilkes, equal; Bradford and Griffith (H. R.) and Metcalfe and Williams, equal; Tait, Brown (H. M.), Holden; Douglas and Gordon and Racicot, equal; Hovey and Mackeen, equal; Armitage and Fry, equal; Bates and Browne (J. C.) and Chown and Fenster and McCaw and MacEwen and Odell and Purdy and Vallance, equal; McKeown; Gale and McLennan and Tinling ,equal. *Class III.*—Gibb, Shaughnessy, Stewart (L. A.), Leonard, Duclos, Haszard, Putnam, Reid (E. B.)

## COMMERCIAL COURSE.

### ENGLISH.

*Class I.*—Walley, McKeown, Bates. *Class II.*—Shaughnessy. *Class III.*—Waugh.

### HISTORY.

*Class I.*—None. *Class II.*—Bates, Walley, McKeown. *Class III.*—Shaughnessy, Waugh.

### COMMERCIAL MATHEMATICS.

*Class I.*—None. *Class II.*—Bates, McKeown. *Class III.*—Walley, Shaughnessy.

### PHYSICAL AND COMMERCIAL GEOGRAPHY.

*Class I.*—None. *Class II.*—Bates. *Class III.*—Walley, McKeown.

# McGill University.

## SESSIONAL EXAMINATIONS, 1910-1911.

## Faculty of Law.

### THIRD YEAR (GRADUATING CLASS.)

HONOURS.

Fitch, L., B.A., and Hastings, W.R., B.A., equal, Elizabeth Torrance Gold Medal and First Rank Honours.
Waterston, E. J., B.A., First Rank Honours, and Alexander Morris Exhibition.
Shanks, W. R. L., B.A., First Rank Honours.
Archibald, K., B.A., Second Rank Honours.
Hastings, W. R., B.A., Junior Bar Prize in Civil Procedure.

PASSED FOR THE DEGREE OF B.C.L.

(In order of merit.)

Fitch, L. } Equal.
Hastings, W. R. }
Shanks, W. R. L.
Archibald, K.
MacDonald, J., M. A.
Creswell, H. J., B.A.
Stockwell, R. J., B.A.
Walsh, J. C. B., B.A.
Owens, T. S., B.A.
Goldenberg, B.
Fisher, W. C.
Alexander, G. L., B.A.

The following passed, but, owing to absence from one or more of the examinations were not placed in order of merit.

Waterston, E. J., B.A.
Fleet, C. A. R., B.A.
Nicholson, D. M.
Merrill, W. A., B.A.

SECOND YEAR.

HONOURS.

Pedley, H. S., B.A.—First Rank General Standing, and prize of $100.00.
Scott, W. B., B.A.—First Rank General Standing, and prize of $75.00.
Plimsoll, A. R. W., B.A.—First Rank General Standing.
Gerin-Lajoie, H.—First Rank General Standing.
Hale, C. A., B.A.—Second Rank General Standing.
Fisher, R. E., B.A.—Second Rank General Standing.
LeMesurier, C. S., B.A.—Second Rank General Standing.
Sinclair, R. V. C.—Second Rank General Standing.

## PASSED THE SESSIONAL EXAMINATIONS OF THE SECOND YEAR.

(In order of merit.)

Pedley, H. S., B.A.
Scott, W. B., B.A.
Plimsoll, A. R. W., B.A.
Gerin-Lajoie, H.
Hale, C. A., B.A.
Fisher, R. E., B.A.
LeMesurier, C. S., B.A.
Sinclair, R. V. C.
Lepine, W. H. E.
Cohen, J.
Engel, J. A.
Marcus, M.
Nantel, M.
Leblanc, W. R.
Lavery, S.

ALSO PASSED.

Angers, A. S. G.
Mingie, G. W., M.A.

## FIRST YEAR.

### HONOURS.

Fineberg, N. S., M.A.—First Rank General Standing, Scholarship of $100.00 and First Prize in Roman Law.
Mariotti, H. C. G., B.A.—First Rank General Standing. Scholarship of $100.00 and Second Prize in Roman Law.
Couture, R. P., B.A.—First Rank General Standing.
MacNaughton, J., B.A.—First Rank General Standing.

## PASSED THE SESSIONAL EXAMINATIONS OF THE FIRST YEAR.

(In order of merit.)

Fineberg, N. S., M.A.
Mariotti, H. C. G., B.A.
Couture, R. P., B.A.
MacNaughton, J., B.A.
Elder, A. H., B.A.
Conroy, P. S., B.A.
Dunlop, J., B.A.
McDougall, E. S., B.A.
Paré, J. H., B.A.
Solomon, N.
Gillmor, D. P., B.A.
McDonald, A. J.
Goldwater, C.
Curry, N. R.
Mulvena, H. R., B.A.
Wilson, F. A.

ALSO PASSED

Newcombe, E. F., B.A.

## STANDING IN THE SEVERAL SUBJECTS.

### THIRD YEAR.

(In order of merit.)

CIVIL PROCEDURE. (Professor Doherty.)

Hastings, Waterston, Shanks; Fitch and Fleet (equal); Walsh, Archibald, Goldenberg, Merrill, Creswell, Owens, Fisher; Stockwell and Nicholson (equal); Alexander.

CRIMINAL LAW. (Mr. Justice Davidson.)

Hastings, Fitch, Waterston, Fleet, Shanks, Creswell, Archibald, Merrill; MacDougall and Walsh (equal); Fisher and Stockwell (equal); Nicholson, Goldenberg, Owen, Alexander.

COMMERCIAL LAW. (Prof. R. C. Smith.)

Fleet, Archibald, Creswell, Hastings, Shanks, Fitch; Fisher and Stockwell, (equal); MacDougall and Walsh (equal); Merrill, Alexander, Owen, Goldenberg, Nicholson.

COMMERCIAL LAW. (Mr. Justice Cross.)

Fitch, Waterston, Hastings, Fleet, Creswell, Walsh, Archibald, MacDonald,; Fisher and Stockwell (equal); Merrill, Alexander, Shanks, Goldenberg, Owen.

GIFTS, WILLS, ETC. (Prof. Doherty.)

Hastings and Waterston (equal); Shanks, Archibald, Fleet, Creswell, Fisher, MacDonald; Fitch and Nicholson, (equal); Owens and Stockwell (equal); Walsh, Goldenberg, Alexander.

MARRIAGE COVENANTS, ETC. (Prof. Geoffrion.)

Waterston, Shanks, Hastings, Fleet, Fitch, Walsh, Stockwell, Creswell, Owens, Nicholson, Alexander, Archibald, MacDonald and Merrill (equal); Goldenberg, Fisher.

CONSTITUTIONAL LAW. (Dean Walton.)

Archibald; Shanks and Fitch (equal); Hastings, Fleet; Waterston and Stockwell (equal); MacDonald; Goldenberg and Fisher (equal); Creswell, Alexander, Owens, Walsh.

ROMAN LAW. (Dean Walton.)

Fitch, Hastings, Waterston; Archibald and Fleet (equal) ; Shanks, Creswell, Goldenberg, Owens and MacDonald (equal); Walsh, Stockwell, Fisher, Nicholson, Alexander.

PARTNERSHIP AND MUNICIPAL LAW. (Prof. McGoun.)

Fitch, Waterston, Hastings, Shanks, Archibald; Stockwell, and Owens and MacDonald (equal); Welsh, Creswell, Goldenberg, Merrill, Fisher, Alexander, Nicholson.

REAL PROPERTY LAW. (Prof. Marler.)

Hastings, Shanks, Waterston; Fitch and MacDonald (equal); Fleet, Nicholson, Archibald, Stockwell, Owens, Goldenberg; Fisher and Merrill (equal); Creswell; Alexander and Walsh (equal).

COMPANY LAW. (Prof. MacDougall.)

Fitch, Waterston, Shanks, Hastings, Coonan; Fleet and Macdonald (equal); Alexander; Creswell and Owens (equal); Archibald, Walsh; Stockwell and Merrill (equal); Nicholson and Goldenberg (equal); Fisher.

## SECOND YEAR.

(In order of merit.)

CIVIL PROCEDURE. (Prof. Doherty.)

Plimsoll, Fisher, Hale, Gerin-Lajoie, Scott, LeMesurier, Pedley, Sinclair, Lepine, Mingie; Nantel and Cohen and Engel (equal); Marcus, Angers, Lavery.

CRIMINAL LAW. (Mr. Justice Davidson.)

Plimsoll, Scott; Hale and Pedley (equal); LeMesurier; Sinclair and Gerin-Lajoie (equal); Fisher, Lavery, Cohen, Leblanc, Engel, Nantel, Lepine, Angers, Marcus.

COMMERCIAL LAW. (Prof. Smith.)

Pedley, Scott, LeMesurier, Plimsoll; Fisher and Lepine (equal); Sinclair, Hale, Gerin-Lajoie, Leblanc, Cohen, Lavery, Engel, Marcus, Nantel.

WILLS, ETC. (Prof. Doherty.)

Scott, Pedley; Gerin-Lajoie and Plimsoll (equal); LeMesurier, Lepine; Cohen and Fisher (equal); Hale, Marcus; Sinclair and Lavery (equal); Mingie, Engel, Nantel, Leblanc.

MARRIAGE COVENANTS, ETC. (Prof. Geoffrion.)

Pedley, Gerin-Lajoie, Scott; Plimsoll and Fisher (equal); Lepine and LeMesurier, (equal); Nantel; Hale and Mingie (equal); Sinclair, Engel, Angers; Cohen and Leblanc (equal); Lavery, Marcus.

COMMERCIAL LAW. (Mr. Justice Cross.)

Pedley, LeMesurier, Hale, Scott, Mingie, Fisher, Lepine, Gerin-Lajoie, Sinclair, Plimsoll; Nantel and Leblanc (equal); Cohen; Marcus and Lavery (equal).

REAL PROPERTY LAW. (Prof. Marler.)

Hale, Pedley, Gerin-Lajoie, Plimsoll, Fisher, Scott, Sinclair, Mingie, LeMesurier; Marcus and Lepine (equal); Cohen, Engel, Nantel, Leblanc.

PARTNERSHIP AND MUNICIPAL LAW. (Prof. McGoun.)

Gerin-Lajoie and Sinclair (equal); Plimsoll and Fisher (equal); Scott and Pedley (equal); Hale, Engel; Marcus and Mingie (equal); Nantel, Lepine, LeMesurier, Angers, Cohen, Lavery.

COMPANY LAW. (Prof. McDougall.)

Sinclair; Gerin-Lajoie and Pedley (equal); Hale, Plimsoll, Scott, Fisher, LeMesurier, Cohen, Engel, Lepine, Marcus, Mingie, Angers; Leblanc and Nantel, (equal).

## FIRST YEAR.

(In order of merit.)

CONSTITUTUIONAL LAW. (Dean Walton.)

Fineberg and Mariotti (equal); Elder, MacNaughton, Couture, Gillmor and Newcombe (equal); Solomon, Conroy, Dunlop, McDougall; Goldwater and Paré (equal); Mulvena; McDonald and Wilson (equal).

LEGAL HISTORY. (Prof. McGoun.)

Dunlop; Elder and Fineberg and Couture (equal); Conroy, McDougall; Mariotti and Paré (equal); McNaughton, McDonald, Gillmor; Newcombe and Solomon (equal); Curry, Goldwater; Cohen and Mulvena (equal).

PERSONS. (Prof. McDougall.)

Fineberg, McNaughton, Mariotti, Dunlop, Couture, Solomon; Elder and Conroy (equal); Newcombe, MacDonald; McDougall and Paré (equal); Wilson; Gillmor and Goldwater (equal); Mulvena, Curry.

REAL PROPERTY LAW. (Prof. Marler.)

Mariotti, Fineberg, Couture, McDougall, Paré; Curry and MacNaughton (equal); Dunlop, Elder, Newcombe, Goldwater; Curry and Solomon (equal); Mulvena and Gillmor (equal); McDonald.

ROMAN LAW. (Dean Walton.)

Fineberg, Mariotti, Couture, McNaughton, Paré, Conroy, Elder; Dunlop and Solomon and McDougall (equal); Curry, McDonald, Gillmor, Goldwater, Wilson.

McGill University Libraries
McGill University Library
3 103 858 496 7